

THE Author again returns moft fincere Thanks to all his kind Contributors; and intreats the Continuance of their Favours; and, as he is now removed to his old Town of *fair* Nottingham, humbly requefts, that fuch Contributors who live convenient for that POST-OFFICE, will order Letters for him to be left there Poft-paid: And the others with Mr. Hawkins, at Stationers-Hall, LONDON, Poft-paid alfo, before EASTER DAY, 1779.

	4			The second se				
		J	AN	UARY hath xxxi Days.	IA	M D	O I Sou	
	Full	I Mo	on	he 2d 13 m. paft 4 After	noon.	11	1230	0
		Quai		he 9th Day at 32 min. pift Noon.		e	22	29
	Ney	v M	oon ^t	ne i/ui g i an pau Sac tvigut.		11	21	.47
	r ira	(Que	rter	the 25th J C Half paft 11 Foreno	on.	16	20	-54
	1		Ċ) in 20 Day, Half past 2 Morning.	24	21	19	52
		- 10		and the second sec		26	18	40
	I	F	21	Circumcifion.	6M	41	11	17
	2	S	22	Jan. WEATHER, now, & to the End.	DR	les	Mo	rn.
	3	C	23	2 Sunday after Christmas.	4A	52	I	25
	4	M	24	TheDays are now upon theIncreafe.		16	2	26
	5	Tu	25	Old Chriftmas Day.	7	41	3	21
	6	W	25	Epiphany.	9	- 3	4	11
	7	Th	27	Salifbury, Wilts.	10	23	1.0	58
	8	F	28	Lucian.	11	-		
		S		Canterbury.	Mor	37	56	43
	9	C	29	-			1.0	26
1	10		30	1 Sunday after Epiphany.	0	50		8
	11	M	31	Day 8 hours 10 min. long.	1	59		52
	12	Tu	Ja	Old New-Years Day.	3	8		36
	13	W	2	Hilary. Camb. Term begins.	4	16	9	24
	14	Th	3	Oxford Term begins.	5	21	10	12
	15	F	4	Nottingham.	6	24	II	i
	16	S	5	Hickford, Lanc.	.7	21	II	51
	17	C	6	2 Sunday after Epiphany.		ets	Aft	ern.
	18	M	7	Q. CHARLOTTE's Birth-day kept.		45	1	40
	19	Tu	8	Day increased 44 min.				
	20	W		In 8 Days of St. Hil. 1 Ret.	5 5	53		27
		Th	9	Agnes. Briftol.	7.8	5		13
	21		10	Vincent. Darby.		17		58
4	22	F	II		9	30		42
	23	S	12	Hilary Term begins.	10 :	42		26
	24	C	13	3 Sunday after Epiphany.	11	58	5	12
	25	M	14	Conversion of St. PAUL.	Moi	rn.	5	59
	26	Tu	15	Day 8 hours 48 min. long.	1.	18	6	51
	27	W	16	Pr. A. F. b. In 15 D. of S. Hil. 2 R.	2	40	7	46
	28	Th	17	Days increased 1 hour 10 min.	4.	4		46
-	29	F	18	Grampound, Cornw.	5	24		49
	30	S	19	K. Charles I. Mart.	16-	33		54
	31	C	20	Septuagefima Sunday.	7	20		
	1							57
	MI		Rife	s O Sets h Rifes 24 Rifes 8 Rifes 2 Se	ts D. I	Brea	k Cl	. fast
	I	8	4	3 56 4 M 26 10A 59 1 11 36 4A 3		59	7 4	' 7''
	6	8	0	4 0 4 0 10 36 1 29 Rife	\$ 5	. 57	1 6	23
	II	7	55	4 5 3 44 10 23 1 22 7M 3		53		28
	16	7	50	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 5	49		18
	26	7	44		9 5	40		51
		17	30	1 24 2 35 9 4 1 2 6 1	3 15	30		<i>n</i>

1-												
	FEBRUARY hath xxviii Days. M O Decl. D South.											
	Full	M	oon	the If	17	C 3i	n the M	oining.		1	170	3
				r the 8t	N Llav	Ha Ha	If paft 6	in the M		6	15	34
	New Moon the 16th Bay at Half pait 11 Forenoon. First Quarter the 23d gat Night.									11	13	58
ł											12	29
	O in X 18 Day, 25 m. past 5 Afternoon.									2 I 26		39
1	M W O Sundays, Holy and remark. Days; DRi								Rife	S	Mo	
-	D		S	Length	, Inc. 8	· Decr.'	Terms,	Fairs.	c Set	ł.,	Sou	th.
1	1	M	21	Days in	creafed	1 hour	28 min	. Faft.	DRi	les	10	V156
1	2	Tu	22	Purif. B	. V. M	IARY.			6A		I	50
	3	W	23	Blasius	3. Ont	heMor.	ofPuri	f. 3 Ret.	7	48	2	48
	4	Th		Axbridg		th, Son		13	9	9	3	28
1	56	F		Agatha					10	25	4	13
1		S		Nampta						39	4	57
-	7	C							Mor		5	42
1	8	M		Days in					01	50	6	27
1	9	Tu		In 8 Da			Retur	n.	2	2	7	14
1	10	W	30	Lland J	Tel, Mo	nm.			3	9	8	0
1	11	Th	31	Day 91	n. • 46 r	n. long			4	13	8	52
1	12	F		Hilary						11	9	42
1	13	S	2	Old Ca	ndlema	15.			6	0	10	32
ľ	14	C	3	Quinq.	Sunda	y. Va	lentine		6	39	11	20
	15	M	4	Blaise,	Cornw	. Boxgr	ove, SI	hopsh.	7	10	Aft	ern.
1	16	Tu	5	Shrove	Tuefd	ay			DS	ets	0	8
1	17	W	6	Afh-W	ednefd	ay, 1ft	Day of	Lent.	6 A	3	0	54
	18	Th	7	Nun-Ec	aton, W	larw.	1		7	18	1	39
	19	F	8	Beverly	, York	fh.				32	2	23
	20	S	9	Days in	ncr. 2	n. 34 m	in.		9	47	3	9
	21	C	10	1 Sund	ay in I	ent.			11	6	3	56
	22	M		Norton,					Mor	n.	4	45
	23	Γu	12	Godalm	ing, Su	rrey.		Faf.	0	27	5	38
	24	W		St. MA			Adol. F	r. born	1	47	6	35
	25	Th		Feversb						6	7	36
	2É	F	15	Oundle,	North	amp.			4	21	8	38
	27	S	16	Day 10	h. 50	min. lo	ong.		5	19	9	41
	28	C	11	2 Sund			13 5	3.073	6	3	10	41
	M Sun Sun Saturn Jupiter Mars Venus							Day	1	CI	ock	
	D	R	ifes	Sers	Rifes	Rifes	Rifes	Rifes	Breal	c	too	faft
	1	7	20	4 35	2M 20	8 A 39	0M51	5M50	5 3	0	14'	4"
	6	7	16	4 45	2 2	8 18	o 44	5 38	5 2	2	14	32
	11	76	8	4 53	1 44 1 26	7 57	0 37	5 25	-	4	14	40
	21	6	59 49	5 2 5 12	1 26 1 7	7 35	0 30	5 13 5 6	5 4 5		14	29 0
	126	6	39	5 22	5 47	7 12 6 48	0 10	4 59	4 4	8	13	12
		a access	and the second		AND DESCRIPTION OF	-	a management of party	Statute and a state of the state	Martin Come	-		

MARCH hath xxvi Days.	MD	South.
Full Moon the 2d] (12 min. paft 2 Afternoon.	1.	7 31
Laft Quarter the 10th Day at 42 m. paft 2 Morning.	6	5 36
First Quarter the 25th Half past 4	11	3 39
	2. 1. 6	1 41 0 N. 18
⊙ in Ŷ 20 Day, 55 min. past 5 Afternoon.	26	
1 M18 David. Galgaeth, Brecknockth. 61	134	11 36
2 Tu 19 Chad. Stockport, Chefh. DR	iles	oM28
3 W 20 Days incr. 3 h. 34 min. 6A	44	1 18
4 Th 21 Melton-Mowbray, Leicelt. 8	0	2 5
F 22 Blanford, Dorletth.	19	2 51
6 S 23 Bowne, Linc. Walden, Effex. 10	-35	3 37
7 C 24 3 Sunday in Lent. Perpetua. Old S. 11 8 M 25 Nottingham. Matth. Mo	47	4 23
		5 11
9 Tu 26 0	59	5 59 6 49
10 W 27 Day 11 h. 32 min, long. 2	6	
11 Th 25 Incr. 3 h. 56 min. 3	7	7 39
12 F M Gregory M. Culliford, Devon 3 13 S 2 Theodore. 4	59	8 29
	45	9 19
14 C 3 Mid-Lent Sunday. 15 M 4 Langadock, Caerm. Oakbam, Rutl. 5	17	10 7
15 M 4 Langadock, Caerm. Oakham, Rutl. 16 Tu 5 Penjance, Cornw. Malmefbury, Wilts. 6	44 6	
17 W 6St. Patrick. Loughboreugh, Leic. 6	25	Aftern.
	Sets	0 25
	42	I II
20 S 9 Equal Day and Night. 9	2	1 59
21 C 105 Sunday in Lent. Benedict. 10	22	2 4.8
22 MII Paulinus.	45	3 41
23 Ju 12 Skipton, Yorkf. Woburn, Bedf. Wrex- Mo	rn.	4 37
24 W 13 Lanercemith, Caerm. [ham, D. Fast.] 1	6	5 37
25 Th 14 Annunciation B. V. MARY. 2	20	
26 F 15 Camb. Term ends. Gloucefter. 3	23	7 39
27 S 16 Oxford Term ends. 4	8	
28 C 17 6 Sunday in Lent. Palm-Sunday. 4	4.1	9 33
29 M 18 Stourbridge, Worceft. 5	11	10 20
30 Tu 19 Day 12 hours 48 min. long. 5 31 W 20 Northmore, Suffex. 5	31 48	11 16 0M 2
	4.0	
M Sun Sun Satun Jupiter Mars Venus Day D Rifes Sets Rifes South Rifes Rifes Break	h	Clock of. Sun
1 6 34 5 27 OM 2 QM50 OM 8 4 M 55 4 43		
66 24 5 37 IIA 55 0 29 IIA 57 4 49 4 33		
11 6 14 5 47 11 48 0 9 11 41 4 43 4 2	1 10	15
16 5 4 5 57 11 39 11A 48 11 36 4 37 4 1		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
The second	ورا	A RECENT AND A RECENT AND A

APRIL hath xxx Days, M O Decl. D North.
Full Moon the 1st 2 in the Morning. 1 4° 36,
Laft Quarter the Sth New Moon the 16th Day at 16 m. paft 3 Afternoon. 11-8 22
New Moon the 16th Day at 16 m. paft 3 Afternoon. 11 8 22 First Quarter the 23d 40 m. paft 10 Forenoon. 16 10 10
Full Moon the 30th 51 m. paft 2 Afternoon. 21 11 54
O in 8 20 Day, 42 min. paft 6 Moining. 26 13 33
ITh 21 Nottingbam. DRifes OM 49
2 F 22 Good Friday. 84 21 1 36
3 S 23 Richard Bp. of Chichester. 9 36 2 22
4 C 24 Easter Sunday. 10 48 3 10
5 M 25 Monday. Old Lady-Day. 11 59 3 59
6 Tu 26 Tuelday
7 W 27 Alberstone, Warw. 1 5 5 39
9 F 29 Days incr. 5 hours 40 min. 2 50 7 19 10 S 30 Apr. Sh. when it rains in this Month. 3 27 8 7
11 C 31 I Sund. after Easter: Low Sunday. 3 55 8 54
12 M A Halt-whiftle, Northumb. 4 18 19 40 13 Tu 2 Albhurn, Derb. Budworth, Chefh: 4 37 10 26
15 1 h 4 Beauley, Hampth, 16 F 5 Dilton's Marsh, Wilts. Piddle-Town, D Sets Aftern.
17 S 6 Malmfbury, Wilts. [Dorfet. 8 A 11 0 49]
18 C 7 2 Sunday after Easter, 9 36 1 42
19 M 8 From the Day of Easter in 2 Weeks. 11 0 2 38
20 To 9 Cank, Staff. Worcefter. [1 Ret. Morn. 3 38
21 W 10 Easter Term begins. 0 18 4 40
22 Th II Giborough, Yorksh. Shrewsbury. I 27 5 41
23 F 12 St. George, Nirthompton. 2 18 6 40
24 S 13 Cirencester, Glouc. Lincoln City. 2 55 7 36
25 C 14 3Su.aft. Easter. St. MARK. Prs. M.b. 3 23 8 29
26 M 15 FromEaster in 3 Weeks. 2 Ret. [1776. 3 43 9 18
27 Tu It Boroughbridge, Yolkfi: 4 110 5
28 W 17 Sobam Cambridgefh. 4 1710 50
29 Th 18 Market Harborough, Leic. 4 33 11 36 30 F 19 Giborough, Yorkfh. D Rifes 0 M 21
J-1- 1- 1- 2- 8
M Sun Sun Seturn Jupiter Mars Venus Day Clock D Rifes Sets Rifes South Rifes Rifes Break bef. Sun
I 5 33 6 28 10 A 4C 10 A 43 10 50 AM 16 3 33 3' 56"
6 5 23 6 38 19 21 10 23 10 31 4 9 3 20 2 26
115 136 48 10 2 10 3 10 11 4 13 6 1 1
16 5 4 6 57 9 42 9 43 9 52 3 53 2 54 0 after 1 21 4 54 7 7 9 20 9 21 9 27 3 45 2 40 1 24
264 457 160 19 09 213 362 232 22
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the first and a second second				
MAY hath xxxi Day	75.	MD		Decl.
	aft 5 Afternoon.	1 1	150	6!
New Moon the 16th (Day at) 6 min. p	aft 1 Morning.	6	16	34
	aft 4 Afternoon.	11	17	-54
Full Moon the 30th 52 min.p	aft 4 Morning.	16	19 20	7
O in II 21 Day, 19 min. paft 7 M	Torning.	26	21	9
1 S 20 St. Philip and St. James,	8A	38	II	
2 C 214 Sunday after Eafter.	0	51	I	57
3 M 22 From Easter in 1 Month,	3 Ret. 11	0	2	47
4 Tu 23 Boston, Linc. Chester field, De	erb.Tam-11	59	3	37
W 24 Louth, Linc. Monmouth. [worth St. Mon		4	26
6 Th 25 John Ev. ante Port Lat.	0	51	5	16
7 F 26 Bath City, Newton, Lanc.	I	.32	6	5
8 S 27 Phillips Norton, Som.	2	3	6	52
9 C 28 Rogation Sunday. 10 M 29 From Eafter in 5 Weeks,	2	28	7	37
10 M 29 From Easter in 5 Weeks,	4 Ret. 2	47	8	21
II Tu 30 Dunstable, Bedf. Stanes, N	lidd. 3	4	9	7
12 W MOld May Day.	3	21	9	53
13 Th 2 Holy Thursday. 14 F 3 On the Morrow of the Afce	3	37	10	41
14 F 3 On the Morrow of the Alce	en. 5 Ret. 3	52	I I	33
15 S 4 O eclipsed invisible.	4	10	Af	tern.
16 C 5 Sunday after Ascension Da	y, DS	Sets	,0	27
In MI OFFACT TARK and	IIOA		I	28
18 Tu 7 Hatefbury, Bucks. Thunderly		18	2	31
19 W 8 Queen CHARLOTTE bo. 1	744, Mo		3	35
20 Th 9 Oxford Term ends.	0	18	4	36
21 F 10 Ashborn, Derb. Cromstock,	Devon. 1	C	1 2	34
22 S 11 Prs. Elizabeth born 1770,	1	31	6	28
23 C 12 Whit-Sunday.	DENN IN A	53		18
24 M 13 Monday.	2	11	-	5
25 Tu 14 Tuesday.	2	27	8	49
26 W 15 August. I. Abp. of Cant.	Ember 2	42		34
27 Th 16 Venerable Bede.	Week. ²	58		- 19
28 F 17 Bala-Merioneth.	. 3	13	1	- 4
29 S 18 K. Cha, II. Birth and Ret		.32		50
3 ^c C ¹ 9 Trinity Sunday, D ecl. Par				IVI 39
31 MI20 On the Mor. of the H. Tri		49		29
M Sun Sun Saturn Jupiter Mars D Rifes Sets South South South	Venus Day Difas Break			Sun
	Rifes Break			-
1 4 36 7 25 0M59 8 A 42 0M55 6 4 28 7 33 0 27 8 22 0 29	3M 28 2 3 18 1	63		81
11 4 20 7 41 0 168 2 0 2		50 3 28 3		40 57
		44		0
21 4 57 55 11 337 20 11 19	2 490	24		49
26 3 59 8 1 11 12 7 210 41	2 39 No Nig	ntis		25

JUNE hath xxx Days.M D O D North.Latt Quarter the 2th New Moon the 2sthDay at $\begin{pmatrix} 42 \text{ min. paft 3 Morning.} \\ 9 \text{ in the Monning.} \\ 10 \text{ moon the 2sth} \\ 2 \text{ min. paft 7 at Night.} \\ 11 \text{ an ED 21 Day, 4 hours atmin. Afternoz.} \\ 2 \text{ Morn. the 2sth} \\ 2 \text{ M 22 Oxford and Camb. Terms begin.} \\ 1 \text{ Tu 21 Nicomede.} \\ 2 \text{ W 22 Oxford and Camb. Terms begin.} \\ 3 \text{ Th 23 Kerby Stepben, Wettm.} \\ 4 \text{ F 24 K. GEO.III. bo. 1738. TERM beg.} \\ 7 \text{ M 23 Kerby Stepben, Wettm.} \\ 4 \text{ F 24 K. GEO.III. bo. 1738. TERM beg.} \\ 7 \text{ M 23 Korby Stepben, Wettm.} \\ 4 \text{ F 24 K. GEO.III. bo. 1738. TERM beg.} \\ 1 \text{ 20 3 9 9} \\ 0 \text{ 1 4 444} \\ 0 \text{ 30 5 20} \\ 0 \text{ 50 6 13} \\ 1 \text{ 28 St. Germains. Cornw.} \\ 9 \text{ W 29 Hadderfield, Suffex.} \\ 1 \text{ 9 6 66} \\ 1 \text{ 30 Prs America born 1711.} \\ 1 \text{ F 31 St. BARWABAS.} \\ 1 \text{ 5 W rexbara, Denb.} \\ 1 \text{ 7 Th 6 St. Alban.} \\ 1 \text{ 5 W rexbara, Denb.} \\ 1 \text{ 7 Th 6 St. Alban.} \\ 1 \text{ 7 F 1 agteon, Y. Wiggan, Lanc.} \\ 1 \text{ 9 S 8 Mingdon, Berks.} \\ 2 \text{ 0 1 S 2 Sunday after Trinity.} \\ 1 \text{ M 3 ln 1 5 Days of H.T. 3 R Oecl. vifible.} \\ 1 \text{ 0 5 1 2 18 St. Germains.} \\ 2 \text{ 10 10 8 St. Merks abas.} \\ 2 \text{ 10 10 1 8 St. Jones Beptift.} \\ 2 \text{ 11 1 0 1 B 3 Weeks of H.T. 3 R Oecl. vifible.} \\ 1 \text{ 0 5 1 2 18 St. Jones Beptift.} \\ 2 \text{ 11 1 0 1 B 3 Weeks of H.T. 4 Ret Long.} \\ 2 0 1 1 5 2 1 0 1 0 3 1 2 1 3 0 42 2 1 0 1 0 3 0 9 0 1 1 5 2 1 0 1 0 3 1 2 1 3 0 42 2 1 0 1 0 0 3 1 0 0 1 1 5 0 3 0 42 0 0 3 0 0 0 1 1 5 5 1 0 3 0 0 0 1 1 5 5 1 0 3 0 0 0 1 1 5 5 1 0 3 0 0 0 1 1 5 5 1 0 3 0 0 0 1 1 5 5 1 0 3 0 0 0 1 1 5 5 1 0 3 0 0 0 1 1 5 5 1 0 3 0 0 0 1 1 5 5 1 0 3 0 0 0 1 1 5 5 1 0 3 0 0 0 1 1 5 5 1 0 3 0 0 0 0 0 0 1 1 5 5 1 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0$		-1
New Moon the 14th Fird Quarter the 20th Full Moon the 25th U mon		
Fird Quarter the 2oth $\int_{40}^{100} y^{-at} \left(\begin{array}{c} 39 \text{ min. paft 11 at Night.} \\ 46 \text{ min. paft 7 at Night.} \\ 46 \text{ min. paft 7 at Night.} \\ 16 23 23 \\ 16 23 23 \\ 20 3 9 \\ 26 23 20 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 26 3 25 \\ 26 23 23 \\ 27 20 2 3 20 \\ 26 23 23 \\ 27 20 2 3 20 \\ 27 20 2 3 20 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 26 23 23 \\ 27 20 \\ 27 20 2 3 \\ 28 \\ 27 20 \\ 27 20 2 3 \\ 28 \\ 27 20 \\ 27 20 2 3 \\ 28 \\ 27 20 \\ 27 20 2 3 \\ 28 \\ 27 20 \\ 27$		
Full Moon the 28th JLáb min, paft 7 at Night16 2323O in \mathfrak{T} 21 Day, 4 heurs 3 min. Afternou.16 23231Tul 21 Nicomede.11 23282W 22 Oxford and Camb. Terms begin.11 4420193Th 23 Kerby Stephen, Wethm.10 4420194F 24 K. GEO. III. bo. 1738. TERM beg.011 4 44525 P. ERN. AUG. bo. 1771. Bonif. Bp.0306C 261 Sunday after Trinity.0507M 28 St. Germains, Cornw.124 7 409W 29 Hadderfield, Suffex.138 8 2010 Th 30 Prs America born 1711.153 9 1511 F31 St. BARNABAS.220 11 52 St. Germains, Cornw.124 7 409W 29 Hadderfield, Suffex.138 8 2010 Th 30 Prs America born 1711.153 9 1511 F31 St. BARNABAS.220 10 812 S Jue Bartlow, Effex, Hadlow, Kent.255 54 ftern.13 C22 Sunday after Trinity.153 9 1514 M 3 In 15 Days of H.T. 3R Oecl.vifible.35 54 ftern.35 54 ftern.15 Tu4 Roylon, Somerfetth.10 51 2 1817 Th 6 St. Albama11 282018 F7 Ingleton, Y. Wiggan, Lanc.11 53 4 1719 S 8 Abingdon, Berks.60 31 6 4420 C 93 Sunday after Trinity.0 31 6 4421 M 10 In 3 Weeks of H.T. 4 Ret Long.D.0 31 6 4424 S 15 Chapel Silvas Kent. Per/bore, Worc.13 9 42	Line in Slav are	
Θ in Ξ_{21} Day, 4 hour 2 min. Afternor. 11^{22}_{26} 23 26 23 23 1 Tu 21 Nicomçde. 10A 44 2 M19 2 W 22 Oxford and Camb. Terms begin. 11 29 9 3 Th 23 Kerby Steblen, Weth. 10A 44 2 M19 4 F 24 K. GEO. III. bo. 1738. TERM beg. 0 1 44 5 25 P. ERN. AUC. bo. 1771. Bonif. Bp. 0 30 5 29 6 C 261 Sunday after Trinity. 0 30 5 29 6 C 261 Sunday after Trinity. 1 38 8 26 10 Th 30 Prs Ameria born 1711. 1 38 8 20 1 53 9 15 11 F 11 St. Barshabs. 2 20 1 53 9 15 21 153 9 15 12 S Je Bartlow, Effex, Hadlow, Kent. 2 20 1 53 21 51 51 1 25 Aftern. 1 23 25 Aftern. 13 St. Barshabs. 2 1 53 21 1 53 1 53 1 53 5 5 5 5 <td></td> <td>- L</td>		- L
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	O in 2 21 Day, 4 hours 2 min. Afternoon. 21 23 2	
2W 22Oxford and Camb. Terms begin.1129393Th 23Kerby Stepben, Weftm.Morn.3574F24K. GEO. III. bo. 1738. TERM beg.014525P. ERN. AUC. bo. 1771. Bonif. Bp.0305296C26I Sunday after Trinity.050657M 27In 8 Days of the H. Trin. 2 Ret.196568Tu 28St. Germains, Cornw.1382610Th 30Prs America born 1711.15391511F31St. Barthow, Effex, Hadlow, Kent.2291512SJe Bartlow, Effex, Hadlow, Kent.2291513C2Sunday after Trinity.15391514M3In 15 Days of H. T. 3 R Oecl. vifible.1534115UA Roylon, Somerfeth,105121816W 5W rexham, Denb,105121817Th 6St. Albama.112832019SMbingdon, Berks.01153420C9Sunday after Trinity.153410St. Barnabas.Fef.10145821M 10In 3 Weeks of H. T. 4 Ret Long.D.01458		<u> </u>
3Th23Kerby Stephen, Weftm.Morn.3574F24K. GEO. III. bo. 1738. TERM beg.014445S25P. ERN. AUC. bo. 1771. Bonif. Bp.0305296C26I Sunday after Trinity.0506137M 27In 8 Days of the H. Trin. 2 Ret.196568Tu 28St. Germains, Cornw.1382610Th 30Prs America born 1711.13382610Th 30Prs America born 1711.13391511F31St. Bartlow, Effex, Hadlow, Kent.229152SJe Bartlow, Effex, Hadlow, Kent.229152SJe Bartlow, Effex, Hadlow, Kent.229152SSt. Albana.105121815Tu 4Reyfon, Somerfeth.105121816W 5Wrexbam, Denb.105121817Th 6St. Albana.11534719SB Abingdon, Berks.03164420C0St. Barnabas.Fef.031621Tu 11Old St. Barnabas.Fef.1081224Th 13St. Jone Baptift.116856 <td></td> <td>1</td>		1
4F24K. GEO. III. bo. 1738. TERM DEC. S 25 P. ERN. AUG. bo. 1771. Bonif. Bp. 0 30 5 296C 26Sunday after Trinity.7M 27In'8 Days of the H, Trin. 2 Ret.196 568I'u 28 St. Germains, Cornw.9W 20Hadderfield, Suffex.113810Th'30Prs Amplia Born 1711.11F31 St. Bar NABAS.12SLe Bartlow, Effex, Hadlow, Kent.13C22 Sunday after Trinity.14MIn 15 Days of H. T. 3R Oecl.vifible.15Tu4 Roylon, Somerfeth, 10 St. Albana.16W 5Wrexham, Denb,17In 3 Weeks of H. T. 4 Ret Long.D.20C93 Sunday after Trinity.21M 10 In 3 Weeks of H. T. 4 Ret Long.D.23W 12 TERM ends.24Th 1325F26S 1527C 164 Sunday after Trinity.28M 1729Higbam-Ferrers, Northamp.20Ya Sunday after Trinity.21M 1623W 1224Th 1335Ju 10025F14Days will foon be upon theDecreafe.23W 1224S 1525Sounday after Trinity.26S 1526S 1527Chapel Silvas Kent. Perfore, Worc.28M 1729Wing Satuit.29Wing S		
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253 448 16 8 54 11 28 8 18 1 5- light. 2 16		13

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JULY hath xxxi Days.	D	Nort	
Laft Quarter the 6th New Moon the 13th Day at 55 m. paft 3 Afternoon.	6	23°	8?
triad Quarter the 20th (Day and 8 m. pair o Morning.	11	22	43
Full Roon the 28th C11 Forenoon.	16	1	23
O in A 23 Day, 53 min. past 2 Morning.	21	20	30 27
1 Th 20 Thorney-Abby, Ely. Worksop, Nort. 100	1 2		
2 F 21 Visitation of the B. V. Mary. 10	50		21
3 S 22 Dog-Days begin 11		8 4	4
4 C 23 5 Sunday after 1 rinity.	2.		47
5 M 24 Old Midfummer. 6 Tu 25 Cambridge Commencement.	3	17	29 14
	orn	2	c
8 Th 27 Folkestone, Kent, O		9 7	49
9 F 28 Cambridge Term ends. 0	2	7 8	42
10 S 29 Old St. Peter. 0		0 9	41
11 C 306 Sund. after Trinity. Oxford A&. 1 12 M Ju Canterbury. 2	2	211	44
13 Tu 2 Huntingdon. Wobourn, Bedf. D	Se		crn.
14 W 3 Days decr. 28 min, 9	A	70	57
15 Th 4 Swithun. 9	4	9 1	58
16 F 5 Winchester. Woodburst, Dorietin. 10		2 2	5+
17 S Oxford Term ends. 18 C 77 Sunday after Trinity.	-	1 3	46
19 M 8 Kenningball, Norf.	3		20
zo Tu 9 Margaret.		2 5	5
21 W 10 Foulness, Kent. Swaffbam, Norf. 11		35 6	50
22 Thu Magdalen.		56 7	36
23 F 12 Daventry, Northamp. 24 S 13 Faringbay, Kent. Faf. c	Iori	1. 8 23 9	24
25 C 148 Sunday after Trinity. St. JAME.		57 10	- 3
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15 C 4 11 Sur day after Trinity, 9 11 3 14 16 M 5 Prince F REDERICK born 1763. 9 23 4 11 17 Tu G Sardney, Ham; th. 9 42 4 47 18 W 7 Day 14 hours 24 min. long. 10 15 34 19 Th S Dartington, Devonth. 10 25 6 22 20 F 9 Days decreafed 2 hours 18 min. 10 25 6 22 21 S 10 Pr. WILLIAM HENRY bo. 1765. 11 39 8 22 C 11 12 Sunday after Trinity. Morn. 8 52 23 M 12 Blford, Northumb. Dinton, Oxf. Faft 0 28 9 42 24 Tu 13 St. BARTHOLOMEW. 2 33 11 12 25 W 14 Milverton, Som. 2 33 11 12 26 Th					
New Mion the 11th Firdt Quarter the 18th Firdt Quarter the 18thDay at 2 st mthe vot at Night 10 at Night 2 in the Morniag.61643Full Moon the 27th O in W 23 Day, 13 min, paft 9 Forenoon.0in W 23 Day, 13 min, paft 9 Forenoon.1111C 129 Sund, aft. Trinity. Lammas Day 2 Dartford, Kent. Wincbeffer. 9 54954492M 22Dartford, Kent. Wincbeffer. 9 Davatury, North. Epfon, Sunty.9101251C 2Dartford, Kent. Wincbeffer. 9 Davatury, North. Epfon, Sunty.9101253To 23Davatury, North. Epfon, Sunty.1010285405Th 25Old St. James.10486316F 20Transfig. of our Lord. 1111157267S 27Name of Jefus.111028268C 2810Sunday after Trinity. 9900103510F 2. Northampton, St. Eades, tlettf.837133513F 2. Northampton, St. Eades, tlettf.837131414S Jord, Nethury, Hamr, fh.9424415M 7Day 14 hours 24 min. long.10153415C 4To anday after Trinity. 99234101515C 4J 20J 40J 40153416M 7Da	AUGUST hath xxxi Days.	51			
First Quarter the 18th 2 io at Night.11 15 17Full Moon the 27th 2 in the Morning.11 15 17G in \mathbb{W} 23 Day, 13 min, paft 9 Forenoon.16 13 45Q in \mathbb{W} 23 Day, 13 min, paft 9 Forenoon.16 13 45Q in \mathbb{W} 23 Day, 13 min, paft 9 Forenoon.9 A 40 3M 262 Daventry, North. Epfom, Surry.9 54 4 9Q in \mathbb{W} 24 Ravenglafs, Cumb. Thurfk, Yorkfl.10 28 540Q in \mathbb{W} 24 Ravenglafs, Cumb. Thurfk, Yorkfl.10 28 540Q in \mathbb{W} 24 Ravenglafs, Cumb. Thurfk, Yorkfl.10 28 640State anglafs, Cumb. Thurfk, Yorkfl.10 28 640Q Ruthin, Denb. Shirkin, Midd.10 418 63110 St. Lawrence.11 15 50 11 38Q Ruthin, Denb. Shirkin, Midd.10 41 10 3510 St. Lawrence.11 50 11 3811 Sunday after Trinity.9 St. Aftern.13 Stow, Suffolk.S Stow, Suffolk.S Stow, Suffolk.2 Stow, Suffolk.10 23 Lawrence,10 15 3410 15 3410 20 artington, Devonth.10 20 artington, Devonth.10 20 artington, Devonth.10 25 0 22 3 11 1120 Cort 1 28 Marther T					2'
Full Mon the 27th C in the Morning. 1 1 3 45 G in W 23 Day, 13 min, paft 9 Forenoon. 26 10 21 26 10 25 1 C 21 0 Sund. aft. Trinity. Lammas Day 9A 40 3M 26 2 M 22 Dartford, Kent. Winchefter. 9 54 4 9 3 To 23 Daventry, North. Epfon, Surry. 10 12 4 9 54 4 9 4 W 24 Ravenglaft, Cumb. Thurft, Yorkfit. 10 28 54 9 54 9 54 4 9 5 Th 25 Old St. James. 10 28 54 9 54 4 9 6 F 26 Transfig. of our Lord. 11 15 76 8 10 28 54 4 9 11 10 28 10 11 10 28 54 4 9 12 13 2 14 15 15 11 10 28 10 11 37 37 37 37		lt			
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2M22Dartford, Kent. Winchefter.954493To23Dawentry, North. Epfon, Surry.10124534W24Rawenglaf, Cumb. Thurfk, Yorkfh.10285405Th 25Old St. James.10486316F25Transfig. of our Lord.11157267S27Name of Jefus.11157267S27Name of Jefus.11508268C2810Sunday after Trinity.Morn.9309M29Rutbin, Denb. Shirkin, Midd.041103510Tr.of Br UNSW, bo. Dog. Days end.Northampton, St. Eades, therf.83713514S3 Stow, Suffolk.85522615C411Surday after Trinity.911311416M5Prince Fr EpERICK born 1763.923410252217ToGBardney, Ham; fh.94244710153419ThS Dartington, Devonth.1025622234111510Pr. WILLIAM HENRY bo. 1765.11398122610311416Haningdon, Woreffer.343Mar.9				-	
3] T $_{0}$ 23Dawentry, North. Epfon, Surry.10124534] W 24Rawenglafs, Cumb. Thurfk, Yorkfh.10285405] Th 25Old St. James.10486316] F 25Transfig. of our Lord.11157267S 27Name of Jefus.11157268C 2810Sunday after Trinity.Morn.9309M 20Ruthin, Denb. Shirkin, Midd.04110351013St. Lawrence.150113811W 31Prs.of Br UNSW. bo. Dog. Days end.0414012Th APr.of WALES b. 1762. Old Lammas.8A 1404013F 2Northampton, St. Eades, Hertf.8371314SStow, Suffolk.85522615C411Sunday after Trinity.942416M 5Prince Fr EpERICK born 1763.942417TaG.Bardney, Ham; fh.102562216YDay 14 hours 24 mis. long.10155417TaSunday after Trinity.942418YDays decreafed 2 hours 181057719Th Sunday after Trinity.102562220C 1112Sunday after Trinity.11398			F		
4 W 24 Rawenglafi, Cumb. Thurfk, Yorkfh. 10 28 5 40 5 Th 25 Old St. James. 10 48 6 31 6 F 20 Transfig. of our Lord. 11 15 7 26 7 S 27 Name of Jefus. 11 15 7 26 8 C 28 to Sunday after Trinity. Morn. 9 30 9 M 29 Rathin, Denb. Shirkin, Midd. 0 41 10 35 10 30 St. Lawrence. 1 50 11 38 11 W 51 Prs.of Breussw.bo. Dog. Days end D Sets Aftern. 12 Th Ar.of Wales b: 1762. Old Lammas. 8 15 2 26 13 F Northamston, St. Eades, thertf. 8 37 135 14 8 35 2 26 15 C 4 In Surday after Trinity. 9 12 34 10 15 34 16 T <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
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8 C 28 10 Sunday after Trinity. Morn. 9 30 9 M 29 Ruthin, Denb. Shirkin, Midd. 0 41 10 35 10 Fu 30 St. Lawrence. 1 50 11 38 14 0 41 10 35 11 W 31 Prs.of Brunsw. bo. Dog-Daysend D Sets Aftern. 8 37 1 35 12 Th A Pr.of W ALES b.1762.Old Lammas. 8A 14 0 40 13 F 2 Northampton, St. Eades, Hertf. 8 37 1 35 5 2 6 14 S 3 Store, Suffolk. 8 5 2 26 9 13 14 14 M Day 14 hours 24 min. long. 10 15 34 10 25 6 22 15 C 11 20 Ay 14 hours 24 min. long. 10 15 34 10 25 6 22 14 12 Stord, Northumb.Dinton, Oxf.Fa/f. 10		11	15		
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SEPTEMBER hath xxx Days. M O Decl. D North.
Laft Quarter the 3d 49 m. paft 3 Afternoon. 18° 16" New Moon the 10th 7 in the Matning. 66 26
Firft Quarter the 17th Day at Half patt 2 Afternoon. 1: 4. 12
Foll Moon the 25th O in 2 23 Day, 35 min. paft 5 Morning. 0 in 2 10 40 16 2 37 21 0 40 21 0 40 25 0 40 26 0 40 27 0 40 26 0 40 27 0 40 27 0 40 26 0 40 27 0 40 26 0 40 27 0 40 26 0 40 27 0 40 26 0 40 27 0 40 27 0 40 26 0 40 27 0 40 26 0 40 26 0 40 27 0 40 26 0 40 27 0 40 26 0 40 27 0 40 26 0 40 26 0 40 26 0 40 27 0 40 26 0 40
1 W 21 Giles, Abbot. Northmoor, Wilts. 8 A58 4M32
2 Th 22 LONDON burnt 1666, O.S. 9 21 5 25
3 F 23 Brecknock, and five following Days. 9 52 6 21 4 S 24 OldBatholomew. Alphy. de-la-Zouch. 10 35 7 23
5 C 25 14 Sunday after Trinity 11 35 8 25
6 M 26 Folkingham, Linc. 7 Tu 27 Enurchus. Snaith, Yorkfh. 0 50 10 23
8 W 28 Nativity of B.V. Mary, Northampton. 2 15 11 26
9 Th 29 Atherstone, Warw. Stourbridge, Worc. 3 48 Aftern. 10 F 30 Day 12 hours 56 min, long. D Sets 0 19
11 S. 3. Followdown, Dev. 7A 19 1 10
12 C Se 15 Sunday after Trinity, 7 35 1 58 13 M 2 Newton, Lanc. Iron Actor, Glouc. 7 52 2 46
14 Tu 3 Holy Crofs. Woburn, Bedf. 8 10 3 34
15 W 4 Ember Week. 8 33 4 23 16 Th 5 Walfall, Staff. Lutterworth, Leic. 9 2 5 13
17 F 6 Lambert. Marsham, Yorksh. 9 39 6 3 18 S 7 Southwark. Stirbitch, Camb. 10 25 6 54
19 C 8 16 Sunday after Trinity. 11 22 7 45
20 M 9 Manchefler, Lanc. Newent, Glou. Faft. Morn. 8 34 21 Tu 10 St. MATTHEW, Buckingbam. 0 28 9 22
22 W 11 K.GEO.III. & Q. CH. crowned 1761. 1 37 10 8
23 Th 12 Equal Day and Night. 2 5010 53 24 F 13 Chefbunt, Hertf. Wickware, Glouc. 4 111 37
25 S 14 Chefterfield, Derb. Denbigh. DRifes CM20
26 C 15 17 Sunday after Trinity. 6A 38 1 4 27 M 16 Clapham, York fh. Northall, Midd. 6 56 1 40
28 Tu 17 Gloucester. Tuxford, Nott. 7 - 13 2 38
29 W 18 St. Michael. Prs. Ch. Aug. born 7 36 3 30 30 Th 19 S. Jerom. Wrexbam. 8 4 4 76
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OCTOBER hath xxxi Days.M \bigcirc O Decl. South.Latt Quarter the 2d New Moon the 9th \bigcirc Day at Sime pail 5 Afternoon. Sime pail 5 Forenoon. Sime pail 6 Morning.I 3° 137 6 forenoon. Sime pail 6 Morning.I 3° 14 forenoon. Sime pail 6 Morning.I 1° f 2 Sime pail 2 Forenoon. Sime pail 6 Morning.Sime pail 6 Morning.Sime pail 6 Morning.Sime pail 6 Morning.I 1° f 2 Sime pail 2 Forenoon. Sime pail 1 for 4 forenoon. Sime pail 1 f									
New Moon the 9th Fift Quarter the 17th Well Moon the 25th O in M 23 Day, 26 min. paft 5 Afternoon. 6 5 6 O in M 23 Day, 26 min. paft 6 Morning. 16 5 6 O in M 23 Day, 26 min. paft 1 Afternoon. 16 5 6 2 S 21 Old St. Matthew, Natting bam, lafts 8 9 33 G 26 3 C 22 S 21 Old St. Matthew, Natting bam, lafts 8 9 33 G 26 3 C 22 S 21 Old St. Matthew, Natting bam, lafts 8 9 33 G 26 3 C 22 S 21 Old St. Matthew, Natting bam, lafts 8 9 33 G 26 3 C 22 Remerides Staff. Morn. 3 29 5 Tu 24 Llanwilling. Montg. Lamport, Som. 0 4 9 24 6 W 25 Faith. Hull, Yorkfh. 1 31 10 16 7 Th 26 Bellericay, Effex. Countefs, Wilts. 2 57 (11 7 8 F 27 Abingdon, Perks. Challock, Kent. 9 Sets Aftern. 9 24 (24 1 32 13 W 2 Tranfl. of K. Edw. Conf. 7 43 4 2 2 2 11 7 14 Th 3 Workfop, Nott. Buttonmoor, Shropfh. 7 43 4 2 2 2 2		OCTOB	ER hath	xxxi	Days	5.			
New Moon the gth Day at 13 m. patt 5 Afternoon. 6 s 6 s 6 s Firft Quarter the 17th Day at 2 Day, 26 min. patt 6 Morning. 11 7 4 Full Moon the 25th S2 m. patt 6 Morning. 11 7 4 S m. patt 6 Morning. 11 7 4 I F 20 Remigius. 8 A 42 5 M25 2 S 21 Old St. Matthew, Netting bam, lafts 8 9 33 6 26 3 C 22 rekridge, Staft. 10 40 7 26 4 M 23 Penkridge, Staft. 10 40 7 26 6 W 25 Faith. Hull, Yorkfh. 13 110 10 7 Th 26 Bellericay, Effex. Countefs, Wilts. 2 S 57 11 7 8 F 27 Abingdon, Perks. Cballock, Kent. 4 23 11 56 9 S 28 St. Denys, Lancafer. 9 Sets Aftern. 10 C 29 toSund.2. Trinity. Cam. Term beg. 6 A 7 0 44 11 M 30 Bedal, York fh. Leicefter. Oxf. T. beg. 6 42 2 11 12 Tranfl. of K. Edw. Confl. 7 7 3 11 13 W 2 Tranfl. of K. Edw. Confl. 7 43 4 2 14 Th 3 Workfop, Nott, Battonmoor, Shropfh. 7 43 4 2 15 F 4 falgly, Warw. 8 277 4 54 16 S 3 by Aford. Market-Harbro', Leic. Morn. 3 210 22 17 W 2 Morkfop, Nott, Battonmoor, Shropfh. <	1	Last Quarter the 2d	с с					1 3°	131
Full Moon the 25th C Lym. part 6 Merning. 11 7 4 Full Moon the 25th S2 m. part 6 Merning. 11 7 4 I F 20 Remigius. S2 m. part 6 Merning. 21 10 45 26 12 30 I F 20 Remigius. S2 m. part 6 Merning. 88A 42 5M25 2 S 21 Old St. Matthew, Natting ham, lafts 8 9 33 6 26 3 C 22 remkridge, Staff. Morn. 32 cg 57 10 40 7 26 4 M 23 Penkridge, Staff. Morn. 32 cg 57 11 7 26 5 27 Abingdon, Perks. Challock, Kent. 9 23 11 7 73 11 7 8 7 Abingdon, Perks. Challock, Kent. 9 25 71 7 73 11 10 C axton, Camb. Salifbary, Wilts. 6 40 2 21 10 26 24 13 10 26 44 27 44 24				13 m. p	aft 5 Af	ternoon	. 6	5	
O in m_{23} Day, 26 min. paß 1 Afternoon.21 ro 26 rz 26 rz44 rz 26 rz 301F20 Remigius.88 A 42 26 rz 3050 rz 3050 rz 302S21 Old St. Matthew, Natiing bam, lafts 8 30 rz 			1 1					7	
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7 Th 26 Bellericay, Effex. Countefs, Wilts. 2 57 11 7 8 F 27 Abingdon, Perks. Challock, Kent. 2 257 11 56 9 S 28 St. Denys, Lancafter. 0 Sets Aftern. 9 52 10 C 29 10 Stud.a. Trinty. Cam. Term beg. 6 A 7 0 44 11 M 30 Bedal, York fh. Leicefter. Oxf. T. beg. 6 24 1 32 12 Tu O Caxton, Camb, Salifbury, Wilts. 6 40 2 21 13 W 2 Tranfl. of K. Edw. Conf. 7 7 3 11 14 Th 3 Workfop, Nott. Buttonmoor, Shropfh. 7 43 4 2 15 F 4 Falefley, Warw. 8 27 4 54 16 S 50/worth, Leiceft. 9 16 5 55 17 C 6 20 Sunday after Trinity. 10 20 6 35 17 Tu 8 Oxford. Market-Harbro', Leic. Morn. 8 10 20 39 8 55 21 Th 10 Banbury, Oxf. Gainbro', Linc. 1 50 9 38 21					ort, So			-	
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24C1321Sunday after Trinity.532115025M14K. GEO. III. Acceffion, Crifpin.DRifes0M3926Tu15K. GEO. III. Procl. 1765.DRifes0M3927W16Buckingham. Warwick.Faft.672228Th17St. SIMON and St. JUDE.64432429F18Old St. Luke.73442430S19Briagen r.b. Shropft.83752731C22Sunday after Trinity.955628MSunSaturn Jupitet MarsVenusDayClockDRifesSetsRifesSetsRifesBreakafter Sun16155477A 16161597429163252762537659625439131216325276495625439131216425176674291514201642516824956254391312166888244444444 <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> <td>; 2</td> <td>10</td> <td>22</td>						3	; 2	10	22
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26 Tu 15 K. GEO. III. Procl. 1763. 5A 44 1 30 27 W 16 Backingham. Warwick. Faft. 6 7 2 25 28 Th 17 St. SIMON and St. JUDE. 6 44 3 24 29 F 18 Old St. Luke. 7 34 4 24 30 S 19 Briagen r.b. Shropft. 8 37 5 27 31 C 22 Sunday after Trinity. 9 55 6 28 M Sun Satural Jupiteti Mars Venus Day Clock D Rifes Sets Rifes Break after Sun 16 15 5 47 7 1616M 15 42 22 ^{III} 16 22 5 37 6 29 5 22 ^{III} 5 22 ^{IIII} 5 22 ^{III}		A CI3ZI Sunda	III Acce	flion.	~.:	5			
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28 Th 17 St. SIMON and St. JUDE. 6 44 3 24 29 F 18 Old St. Luke. 7 34 4 24 30 S 19 Briagen r.b. Shropft. 8 37 5 27 31 C 20 22 Sunday after Trinity. 9 55 6 28 M Sun Sun Sits Sits Rifes Sets Rifes Break after Sun 16 15 5 47 7 A 16 M 15 9 5 ^M 50 4 18 10 ^d 22 ^d 16 22 5 37 6 25 4 39 3 12 16 42 5 37 6 25 4 39 13 12 16 42 5 17 6 25 4 39 13 12 16 42 5 17 6 25 36 3 6 42 49 13 12 16 42 5 17 6 25					F	a. 5			-
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NOVEMBER hath xxx Days.			O D	
1 7 11 days and the state of th		D	Sout	
Laft Quarter the 1ft 47 m. paft 5 Mornin New Moon the Sth 24 m. paft 6 Mornin		16	14:0	301
First Quarter the 16th > Day at < 35 m. past 6 Mornin	g.	11	17	29
Full Moon the 2 d 57 m; paft 7 at Nigh	nt.	16	18	48
Sift Quarter the 30th J Li6 m. paft 1 Afterno in \$22 Day, 35 min. paft 9 Morning.	oon.	21	19	59
			1	
1 IVI 21 All Saints. 2 Tu 22 All Souls. Pr. EDWARD bo. 1767.	11-A Mor		7№ 8	121
3 W 23 On the Morr. of All Souls, 1 Ret. Prs.	0	44		4
4 Th 24 Apple haw, Hants. [SOPHIAD.1777.	2	9	9	53
	3	29		38
6 S 26 TERM begins	4	49	1	25
7 C 27 23 Sun.aft. Tr n. D.CUMB. b.1745.	Ġ	5	Afte	ern.
8 M 28 Prs. A. SOPH. b. 1768. O.Sim. & Jude.		ets		14
9 Tu 29 Lord Mayor's Day, at LONDON.	. 5 A			3
10 W 30 Lenton, Nott. Rochester, Kent.	56	40		54
11 Th 31 St. Martin.		18	100	40
12 F N On the Mor. of St. Mart. 2Ret. O. 13 S 2 Britius, York City. [All Saints.	7	- 6 6	15	37
		12	1 .	28
14 C 324 Sunday after Trinity. 15 M 4 Machutus.	9	21	5	17
16 Tu 5 Launceston, Cornw. Andower, Hampfh.	11	31	6	48
17 W OHugh Bp. of Lincoln.	Mor			31
18 Th 7 In 8 Days of St. Martin, 3 Ret.	0	42	78	13
19 F 8 Woodcot, Oxf. Yarmo, Y.	1.1-	54	1 0	56
20 S 9 Edmund, K. and Mart.	3	7	9	39
21 C 1025 Sunday after Trinity.	4	22	10	20
22 M 11 Cecilia. Old St. Martin.	5	43		15
23 Tu 12 St. Clement, D eclipfed, visible.	DR			- 7
24 W 13 Days decr. 8 hours 12 min. 25 Th 14D, of GLOVE, b. In 15D, of S. Mart.	4A			8
	5	22	1 1 5	11
26 F 15 Cafletown, Monm. [4 Ret. 27 S 16 TERM ends.	7	35	1 3	14
28 C 17 Advent Sunday.	9	31		15
29 M 18 Albbern, Derb. Faft.		24		6
30 Tu 19 St. ANDREW.	11	. 40	1 1	56
M Sun Sun Saturn Jupiter Mars Venus	Day			ock
D Rifes Sets Sets Rifes Sets Sets	Break	k	after	
1 7 12 4 47 5 29 4 M 58 9 A 0 4 A 52		1	167	13'
6 7 21 4 38 5 10 4 43 9 0 4 48 1 1 7 29 4 30 4 51 4 27 8 59 4 42	5 2 5 3		16 15	8 42
167 374 224 324 118 594 38			14	55
21 7 45 4 15 Rifes 3 57 8 59 4 36	5 4	13	13	48
2617 5114 917M 5113 42'9 0'4 14	5 4	491	12	21

DECEMBER hath xxxi Days.	M O Decl. D South.
New Moon the 7th 7 (31 min. palt 10 at 1	
First Quarter the 16th Day at \$ 54 m. past 2 Morni	
Full Moon the 23d 52 m. paft 7 Morni Laft Quarter the 29th 37 m. paft 10 at Nig	ng. 1123 3 ht. 1623 21
and the second se	21 23 28
O in B 21 Day, 57 min. past 9 at Night,	26 23 23
1 W 20 Rotherbam, Yorkfh.	Morn. 7M43
2 Th 21 Hoxen, Suff.	I /II 8 20
3 F 22 Pennyfont, Som.	2 29 9 15
4 S 23 Atberstone, Warw.	3 45 10 1
5 C 24 2 Sundaý in Advent. 6 M 25 Nicholas.	5 3 10 48
	6 21 11 37
7 Tu 26 San eclipfed invifible. 8 W 27 Concept. of B. V. Mary,	D Sets Aftern.
of allocacept. o. b. t. trany.	4A 6 0 23
	4 50 1 20
10 F 29 Newport, Shroph.	5 45 2 12 6 48 2 1
12 C D3 Sunday in Advent.	1 - T+1 0
13 M 2 Lucy, V. and Mart.	7 55 3 48
14 Tu 3 Namptavich, Chelh.	9 5 4 33 10 14 5 16
15 W 4 Ember Week.	-T 3
16 Th 5 O Sapientia, Camb. Term ends.	Morn. 6 38
17 F 6 Oxford Term ends.	0 36 7 19
18 S 7 Spalding, Linc.	1 48 8 3
10 C 84 Sunday in Advent.	3 3 8 50
20 M 9 The greatest shorten, of D. is 8 h	• 4 23 9 41
21 Tu 10 St. Thomas. 50 m. Fast	. 5 46 10 37
22 W 11 Shorteft Day.	7 13 11 39
23 Th 12 It will be Christmas Weather al	1
24 F 13 England over, the nextWeek. Fast	17
25 S 14 CHRISTMAS-DAY,	6 25 2 50
26 C 15 1 Sun, aft. Chriftm. St. STEPHEN	
27 MIOSt. JOHN. 28 Tult7H. Innocents	9 22 4 40
28 Tu 17 H. Innocents 29 W 18 Cockhill, Som.	10 45 5 29 Morn. 6 15
30 Th 10 Maiden Bradley, Wilts.	Morn. 6 15
31 F 120 Silvefter.	1 24 7 45
	Day Cluck
	reak before Sun
117 57 4 3 7 M 16 3 M 23 9 0 4 A 35 5	54 10' 35'
63 12 506 562 50 04 405	56 8 33
TI 3 5 3 556 362 489 04 465 163 7 3 536 162 319 04 516	58 6 17 0 3 53
21 3 8 3 52 5 56 2 13 9 0 5 0 6	I I 25
26 3 7 3 53 5 36 1 55 3 59 5 12 6	o i before 4

A TABLE	of al	l the	Kings	an	dC	ÜEEN	s of	
England fince the Conquest.								
The Year of						-	Years	
and Queen						he	fince	-
and Day,						ngth	each	
reign : begi						each	Reign	00
Day of Jar				110	Re	ign.	ended	
							· · · · · · · · · · · · · · · · · · ·	
Names.	Born	Begai	n to Reig	n.	Υ.	M. D.	fince.	
William Conq.	1027	1066	October	14	20	10-26	692	
William Rufus	1057	1087	Septem.	9	12	10 24	679	
Henry I.	1068		August	2	35	3 29	644	
Stephen	1 105	1135	Decem.	ł	18	10 24	625	
Henry II.	1132	1154	October	25	34	8 11	590	
Richard I.	1156	1189	July	6	9	9 0	580	
John			April	6		6 13	563	
Henry III.	1207	1216	October	19	56	0 28	507	
Edward I.	1239	1272	Novem.	16	34	7 21	472	
Edward II.	1284	1307	July	7	19	6 18	452	
Edward III.		1327	January	25	50	4 27	402	1
Richard II.	1366	1377	June	21	22	3 8		1
Henry IV.	1367		Septem.	29	13	5 20	366	
Henry V.	1389	1413	March	20	9	5 1 1		1
Henry VI.	1421	1422	August	31	38	6 4		-
Edward IV.	1442	1461	March	4	22	1 5	296	1
Edward V.	1471	1483	April	9	0	2 1 3	296	
Richard III.	1443	1483	June	22	2	2 0	294	
Henry VII.	1457	1485		22	23	8 0	270	
Henry VIII.	1492	1509	April	22	37	9 6	232	1
Edward VI.	1537	1547	January	28		5 8	226	1
Mary I.		1553		6	5	4 1	221	-
Elizabeth				17		4 7	176	
James I.		1603	March	24	22	0 3	154	
Charles I.	1600	1625	March	27	23	TO :		
Charles II.	1630	1649	January		36	0 7		1
James II.	1633	1685	Februar	y e	5 4	0		1
S William III.		1 2	589 Feb.		13	0 2		1
Mary II.	1662		109 reb.	13	5	10 1		
Anne	1665	1702	March	8	312	4 2	1 1	
George I.	1660	1714	August		1 1 2	10 1		
George II.	168:	1727		1		4 I.	4 19	1
George III.	1738	1760	October	r 24	5 wh	om Gad	preferve	.1
I Carmenter and the second		-			Caral Marin			-

A Compendious TABLE of INTEREST,

			SHEWI	NG		
The Interest of any Sum of Money, from a Million to a						
Pound, for any Number of Days, at any Rate of Interest.						
Nº	1.	s.	d. q.	1 Nº 1. s. d. q.		
1000000-2		14	60,9			
900000-2		15	03,2			
800000-2		15	7 1. , 5			
700000-1	-	16	1 3 ,8	9 700-1 18 4 1,10		
600000-		16	8 2 ,1			
500000-		17	30,4			
400000-1		17	9 2 ,7			
300000-		18	41,0			
200000-	547	18	10 3 ,4			
100000-	273	19	51,7			
90000-	246	Í	60,3			
80000-	219	3	60,9	6 80-0 4 4 2 ,41		
70000-	191	15	7 1 ,5			
60000-	164	7	80,2			
50000-	136	19	8 2 ,8			
40000-	109	II	91,4	8 40-0 2 2 1 ,21		
30000-	84	3	10 0 ,1	1 30-0 1 7 0,90		
20000-	54	15	10 2 ,7	4 20-0 1 10,60		
10000	27	7	11 1,3	7 10-0 0 6 2 ,30		
9000-	24	13	1 3,2	3 9-0 0 5 3 ,67		
8000-	21	18	4 I , I	0 8-0 0 5 1,04		
7000-	19	3	6 z ,9			
600c-	16	8	90,8	2 6-0 0 3 3 ,78		
5000-	13	13	II 2 ,5			
4000-	10	19	20,5			
3000-	8	4	4 2 ,4			
2000-	5	9	70,2			
1000-	2	14	92,1	4 1-0 0 0 2,63		
RULE						

R U L E. Multiply the Sum by the Number of Days; and that Product by the Rate per Cent. Then cut off the two laft Figures to the Right Hand, and the reft you muft find in the Table. Example. What is the latterful of rook Days at a per Cent?

Nº of Days 360	T	hen i						cent
multiply by 100	against 1	000]		2	14	9	2	,14
Product 36500		800 20		2	3	10	0	,11
multiply by	Rate per Cent.	20	• 13	0	I	1	0	,60
182500	And againft	5 -		0	0	3	I	, 1 5
1000		An	ſ.	5	0	0	0	,00

The GENT. Diary ; or, Math. Repofitory. 17

Of the ECLIPSES of the Luminaries happening in 1779.

THE Firft; will be an invifible Eclipte of the SUN, on Sunday the 16th of May, at 1 in the Morning.

The Second, will be a total Eclipic of the Moon; and part wifible : on Trinity Sunday, the 30th of May, in the Morning.

FI, IVAs
Beginning 3 2
Beginning of total Darkness - 4 12
Middle 4 55
End of total Darkness - 5 37
End of the Eclipfe 6 48
Digits eclipted 15° 47'
The Third is a visible Eclipse of the SUN, on Monday the 14th of
. June, in the Morning : Beginning of the Eclipte - 7 18
Middle 7 59
End 8 43
Digits 2° 15'
(
The Frink will be a great and with a Faling of the Maars on

The Fourth, will be a great and vijible Eclipte of the Moon;	OR
	M.
Beginning of the Eclipfe - 6	7
Beginning of total Darkness - 7	1
Middle — 7	57
End of total Darkness 8	48
End of the Eclipfe 9	47
Different' Categoria	

Digits eclipfed 20° 42

The Fifth and laft, will be an invifible Eclipie of the Sun, on Tuelday the 7th of December, at half paft to at Night.

Mils POLLY STOW's, are as under;

See the Eclipfes, how they run; Two of the Moon; one of the Sun; By Polly Stow your female Friend, As She below the fame has penn'd,

The Moon, o	on May 30, Morn.	The SUN, June 14, Morning.	
The shall D	A DALLARD STR. S.	Beginning - 7 H. 22 m.	
Beginning	- 3 H. 7 m.	Middle — — 8 7	
Moon Sets	- 3 55	End - 8 42	

The Moon, on November 23, at Night.

Beginning. of total Darl	inels		7 H	. 10 1	n. 48"
Middle — —	-	-	8	0	39
End of total Darkness		-	8	50	29
End of the Eclipfe	-	Auril	9	49	13

18 SUN's Eclipfe; ÆNIGMAS anfwered. N°39.

Mr. RICHARD TODD, of Alnvoick, Northumberland; fent the following computation of the SUN's Eclipfe, on the 14th of June.

Sun eclipsed June 14, 17	79. BERWICK,	on Tweed.	ARCHAN	GEL.
Beginning — — Middle — — End — — Digits eclipfed —	$ \begin{array}{c c} - & 7 & H. & 18' \\ - & 8 & 02 \\ - & 8 & 53 \\ - & 4^{\circ} & 18 \end{array} $	P. M.	10 H. 57 11 42 12 26 2° 18	> P. M.
Gen.APPEARANCES.	Time at LOND.	Latitude.	Longitude.	Country. Western
ECLIPSE begins at ?	6H. 5 P.M.	32° 00'N.	30° 29W.	ocean.
Greateft of all -	8 55	65 15N.	112 52W.	Unknown
Under the Pole of the ? Ecliptic, at O rifing.	9 05		128 42W.	
In the North Point of { the Horizon.	9 11	69 42 N	137 45W.	Do.
Ends at SUN Setting. SUN's lower limb, 7	10 50	43 22 N.	134 42 E.	Oriental Sea.
touched by the Moon'supperlimb, in the Meridian.	9 3	55 23N	44 15 E.	

Mr. JOHN NORMAN, of Braybrook, Northamptonshire, computed all the ECLIPSES from new manuicript TABLES of his own composing; with the general appearances, for LONDON, York, and Edinburgh.

And Mr. SAMUEL OLIVER, of Popplewick, Nottinghamfhire, fent computations of the ECLIPSES, with a Type of that of the Mook on the 20th of May; which, for want of room cannot be inferted.

Answers to the ÆNIGMAS	, &c. in the last Year's DIARY.
I. SCANDAL.	5. A CORK.
2. DARKNESS.	6. TIME.
3. MAGIC LANTHORN.	7. A SEXTON.
4. The FINGER NAILS.	8. STRENGTH.
Priz	e. DICE.
n 1 . D	and a los and the

1 Rebus, PEAT. 2 GOUGH, COLLEDGE, and SIMPKIN. 3 Excise.

The PRIZE ÆNIGMA anfwered by Mr. WILLIAM RICHARDSON.

DIARIAN WYLD, your riddle, I think May be the Box and DICE; Therefore, my friend, let's have a drink, Then try to get a prize.

The fame anfwered by Mifs POLLY STOW, of Stow. Make room—fand by.—Let me caft the DICE ! Who knows but kind fortune may give me the prize? Behold—how furprifing !—Pray look down and fee, The DICE, they run fixes—the PRIZE falls to me;

The

The GENT. Diary; or, Math. Repolitory. 19

The fame answered by Mr. ROBERT MARSHAL, of Hools, Lancashire. From the bints giv'n (which are quite nice) Your meaning Wyld's, a pair of DICE.

MIS. AMELIA STANHOPE, aniwers the fame, thus; Let cards nor DICE no more (ye fair) Your hands employ, nor hearts enfnare, For more fublime delights prepare. KNOW! facred time the gift of gracious heav'n, 'To wafte at folly's fhrine—was never given.

Mr. FRANCIS TURNER, anfwers it thus; The PRIZE ÆNIGMA I've guess'd in a trice, And nought could I make on't but juory DICE.

Mr. THOMAS BARKER, anfwers the fame as under; While fome parade in ufelefs wealth, thro' all the paths of vice, Wafting their thoufands, time and health, at billiards, cards, or DICE & To pleafe the contemplative mind, and not offend its GoD. May I Eliza's cottage find, a peaceful, blefs'd abode !

All the ÆNIGMAS and REBUSSES answered by Mr. WM. WYLD, addreffed to Lusedo, in a diffuative from DICE.

Will you Lufedo sport your TIME away With DICE, at bazard, or back-gammon play ? Will you ; defcended from a lineal race Of peers illustrious ! Thus yourfelf debafe ? Suppose you win-what cause have you to boast? When reputation in exchange is loft ! Think what a SCANDAL 'tis : your fpotlefs fame Will foon be fully'd with a GAMBLER's name. By facred friendship's tye, I now intreat, You will the CORK-tree fhun, where gamefters meet ! You-who may have a tip-flaff at command, Duteous, to walk before you with a WAND *; That undiffurb'd by the tumultuous throng. With fafety you, in ftate, may pafs along ; All which is forfeit, if you perfevere Will refolutely to the box adhere : If you defign to leave it. Do not throw, Do not yourfelf another caft allow. 'Tis repetition which a bias lays, Upon the will, and the affection fways; Heightens the tafk the conquest to acquire, Cuftom incites-gives STRENGTH to the defire. At leifure hours, if I may you advife,

Repair to PEAT's, the office of excile; 1 and 3 Rebe Enquire there, for WILKIN, GOUGH, and COLLEDGE, 2 Reb. Men of erudition, and fam'd for knowledge; What darknefs in Lufedo yet does dwell, 2 Æ. They will by force of argument difpel; B 2 Will

* Alluding to a SEXTON.

Prize

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7

ÆNIGMAS in 1778 answered. Nº 39.

Will make that LANTHORN, reafon, brighter fhine, Enlarge conceptions; moral and divine : With fuch affociate—genious to improve, The leaft degree of ign²rance to remove ; Yet, fome remains we may expect to find Of clouded notions in a youthful mind. If thefe reflections are of no avail,

Then be advis'd to fit and pare your NAIL.

All the ENIGMAS and REFUSSES, answered by Mr. WILLIAM MASSOM.

Since COLLEDGE, GOUGH, and SIMKIN, are all deem'd 2 Reb. Three tipling poets, — why fhould I be forcen'd? I love the bottle, and good company, As well as any of the *jovial three*!

One night when DARK, I to the tavern bound, When there I got, friend Simpkin foon I found; Tho' TIME was fhort, ---- his company I join'd, So we shook hands, -our FINGER-NAILS combin'd : 4 No fop of pride, no SCANDALizing tongue, No DICE. nor cards to either did belong : Prize No brawling company at all was there, So, next my friend, I took the corner chair ; Both freely drank (as we are apt to do) Had call'd the reck'ning, ready for to go. In came the SEXTON, and EXCISE man too! > 7 Æ. 3 Reb. Diarians both, of wit and judgment nice Some friendly welcomes país'd, when in a trice, Another bottle we uncork'd in hafte Drank bealth to PEAT, and ev'ry fon of tafte! I Reb. The liquor fine, foon made us all fo wanton, We look like figures in a MAGIC-LANTHORN ! We fung, laugh'd, jok'd, and drank, until at length, 8 We fairly found, --- we'd try'd each other's STRENGTH.

All the ÆNIGMAS answered by Mr. WILLIAM WOODHOUSE.

In this night fcene this DARK retreat With me, O LogD refide My FINGERS Lord, and eke my feet As with a LANTHORN guide. Be SCANDAL ne'er by me enjoy'd, While TIME I can call mine. Oh! better be my STRENGTH employ'd; And form my will to thine. Then when the SEXTON tolls my bell Light as a CORK I'll flee To faints, to beav'n, to THEE! Mr.

The GENT. Diary; or, Math. Repofitory. 21

Mr. THOMAS ADCOCK of Alby-de-la-Zouch, answers them as follows :

THE HAPPY MAN. Happy ! the man, who free from noify fports. And all the pomp and pageantry of courts ; Free from the venal world, can live fecure. Be moral honeft ; ---- virtuous ----- tho' poor : Who walking fill by equity's just rules. Detefting CORK ifhknaves, and SCANDALizing fools ! Regarding neither fortune, pow'r, nor state, Nor ever withing to be wainly great : Door STRONG with NAILS he fees old TIME defy, 8.4.6 But what is that to him who's learn'd to die? A foe to DICE, no paffions guilty friend, Prize Obeying nature, faithful to the end. Severe in manners, and in truth fevere, Juft to himfelf, and to his friend fincere; His temper even, and his steady mind Refin'd by friendship, and by books refin'd ; In fome neat cottage holds the happy fwain, Unknown to DARKNESS, or the LANTHORN train ; He fludying nature grows ferenely wife, Like to a SEXTON lives, or like him dies : He afks no glory gain'd by hoftile arms, Nor fighs for grandeur with her painted charms ; With calm indiff'rence views the fhifting fcene, Thro' all magnanimous, refign'd, ferene; On hopes fuftain'd he treads life's devious road, And knows no fear, except the fear of God! Would heav'n indulgent, grant my fond defire, Thus would I live-and thus fhould life expire !

Mr. W. GOUGH fent the following answer to the Ænigmas and Rebuffes,

One evening young Molly I met in the vale, Refolved I was for to tell my fond tale ; I step'd to the fair one, and offer'd a kits, Fye Hodge ! - She reply'd; what a SCANDAL is this ?

Pray hafte to your flock, mind your plough and your team, Your vows and your fighs are no more than a dream ; And DARKNESS comes on-fo I'll bid you adieu, What fair can be fafe with fuch rakes Hodge as you ?

No MAGICAL LANTHORN could e'er more furprife ; I view'd her foft charms, and her black rolling eyes : My heart was inflam'd with foft raptures of love! But deaf to my fighs fill the fair one did prove.

Refolv'd then I was for to try her next day, She happen'd to pais me when turning my hay; I laid down my prong to embrace the fweet fair, And prefs'd her foft FINGERS 'twixt love and despair.

B 3

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5. 1

ÆNIGMAS in 1778 answered. N° 39.

Why Hodge cry'd the fair one, you lately did own, You'd woo'd all the girls that refide in the town; Then, how can I truft you ?-So take up your fork, For your words are as light as a feather or cork.

Pray be not fo harfh, cry'd the fubtle young fwain I've a farm of my own, and a flock on the plain; No TIME then delay, but away let us hie To the church on the brow, where the knot we will tie.

She fmil'd in my face, and the SEXTON call'd too, Then blufb'd ber compliance; and yow'd to be true; Saying, Hodge if you're conftant (to end all the firife) I'l give you my hand, and be happy for life!

My STRENCTH I renew'd, and without more delay. To the altar of Hymen we haffen'd away; Where both were united in conjugal blifs. To love and live happy! What's equal to this?

The nuptials being crowned, to dinner we went, At DICE, while, and cribbage, the evening we fpent: Prize No mortals to happy, nor to full of glee, As th' EXCISEMAN and PEAT, Simpkin, Colledge and Me. Reb.

The ÆNIGMAS answered by Mr. B. CLEYPOLE; on Scurrility.

To a puppet- for one TIME I did go, (A mile and half did I wander) Some young priggs being there to whom I fat near Their click-clacks were all upon SLANDER. One faid that Mils Clark was kils'd in the DARK ; That fhe was both wicked and wanton; Becaufe fhe did go for to fee the odd thow Performed by a MAGIC-LANTHORN. Thus, they run their randans with uplifted HANDS, Their language, as light as a CORK, With one eye they would wink, which made me to think see They'd ne'er feen a SEXTON at work. 'Till their clacks at the length, having fpent all their STRENGTH And all modefty quite had bereft 'em, When up they did rife, for play with TWO DIES, Prize Then I came away, _____and there left 'em. All the ÆNIGMAS answered by Mr. WILLIAM RICHARDSON, ON

Morning.

See! How Aurora, with her gilded fan, Drives DARKNESS off,—and ufhers in the dawn : Firft of the feather'd tribe, the lark begins, And poiz'd on high, his early matins fings ; Perch'd on the fpray, the black-bird tunes his throat, Makes woods revetb'rate with his fwelling note.

Hear

8

6

The GENT. Diary; or, Math. Repofitory. 23

Hear, how the hepberd his bucolics play, To welcome in the roly FINGER'd day. The gamefter ---- SCANDALOUS, the laft doth rife Who spends both TIME, and STRENGTH o'er rattling 6. 8. Prize DICE He. SEXTON difregards-or tolling bell, Will draw another CORK, or filthy tale will tell. Perhaps, a MAGIC-LANTHORN, he will fay, 3 By far excels the fweets of new-born day ! See yonder, how the milk maids trip along. Cheering each other with a rural fong : For, in the morn, all nature's blithe and gay, But then, e'er noon-fhe droops, and fades away.

Anfwers to all the ÆNIGMAS, by Mr. WILLIAM SWIFT of Stow. near Lincoln.

What a SCANDALOUS VIRGER * I paffed laft NIGHT! 1.7.2 With his rod, and his LANTHORN, he much did me fright : I was all for fighting-but my STRENGTH-gentlemen At that TIME did fail me-what could I do then ? And as light as a CORK was my heart in a trice When, at one fingle caft, I gained your PRIZE.

A general Answer to all the ÆNIGMAS, and REBUSSES; by Mr. THOMAS TRUSSWELL of Nun-Eaton, Warwickshire,

Once more (my dear gents) your foft, rapturous strains Invite me to tread the DIARIAN plains; Where science extends her fair branches around. And bends with her clufters of fruit to the ground ! How happy was I, when permitted to rove, Where learning now wears the foft emblems of love ; Where truth and fair science, united agree. In meanings abstruse, tho' good natur'd and free.

When first, in my youth, I attempted the stage Kind PEAT me excus'd, and confider'd my age ; Thanks, thanks aged mafter, my thanks are your due; For all the kind favours received from you ! Then fortune ! O fortune, unto him be kind ! God grant him long life, and accomplish his mind ! How oft I've perus'd the Ænigmatic lore, Each Rebus and Query, I've conn'd them all o'er : Such intricate turnings and windings appear, I feartely can folve tn' Ænigmas this year.

But ftop ! my dull mufe-and no longer defpair For riddles are made a DARK garment to wear But quickly unveil'd ---- by attention will flow-An aspect that seems quite delightful and new ;

B 4

* Alluding to a SEXTON.

I Reb.

7

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Like

24 ÆNIGMAS in 1778 answered. Nº 39.

Like MAGICAL LANTHORNS convey to the mind Strange comical funcies-tho' always refin'd By witty Diarian's-e'en some of the best, AS COLLEDGE, and SIMPKIN, GOUGH, Gumley, and Weft. 2 Reb. When SCANDAL takes place, how great is the fway. (But TIME will foon bring fuch things to decay.) 6 How bufy their FINGERS, how fcornful their eye 4 Their hearts fo malicous, 'tis hard to defcry. When the SEXTON he tolls, and the death-bell does call Their STENGTH will have left 'em. and down they must fall ! Then caft the fair DICE, let the number be thrown, Prize That each may partake a fair chance of his own; May mine be a chance that will lead me to heav'n And grant that my fins be hereafter forgiv'n. P. S. The fifth ÆNIG. is a Cork, and third REBUS. Excife. Mr. BENJAMIN WEST answers the Ænigmas, as follows.

POLLY STOW, a LYRIC ESSAY: address'd to Mr. W. SWIFT. Audentes fortuna juvat. VIRG.

> LET goffips o'er their dear bohea, In *lies* and sCANDAL wafte the day And doat on empty flow; Be mine the tafk in lyric frains, To fing the Clie of the plains, The tuneful POLLY Stow.

Say little patent urchin, fay What filent MAGIC waits thy fway

That SWIFT fhould feem too SLOW? Oh! give the bard a voice to fing, And pow'r to wake the rapt'rous firing

To love and POLLY STOW.

When blufning o'er the dewy lawn The dappled rofy FINGER'd dawn

Difplays her brighteft glow, More beauteous than Aurora's dies More lovely far to Billy's eyes Appears his Polly Stow.

Courage ! fweet bard of Lincolnfhire ! With heart as light as CORK appear Nor dread a rival top ;

The GENT. Diary; or, Math. Repository. 25

Your parts, your merit, rife confest Then fue-fucceed-belov'd-be bleft By-pretty Polly Stow.

See! beck'ning to the hallow'd dome Propitious Hymen bids you come

(His torch flames bright as tew) Hafte then, fond youth !-----no TIME delay Prefs on------be happy while you may With------charming POLLY STOW.

With accents difinal as the knell, Deep-founding from the SEXTON'S bell

Tho' fools paint wedlock's woe, Empty as air their words you'll prove, And own a little heav'n in love,

When yok'd with POLLY STOW. Such fenfe, with fpotlefs virtue join'd, An inexhaufted fource you'll find,

When ege your manly STRENGTH shall break And fleal the rote-blush from the cheek

Of-lovely POLLY STOW.

Sing, Heliconian virgins, fing ! And wreaths of choiceft flow'rets bring

That on Parnaffus blow; With Io Parans fill the fixies! Fates DIE is caft and Billy's prize Is peerlefs POLLY STOW.

9 Prize

bear

General Solutions (in Verle) were also given, by Messes. John Jackfon, Joseph James, Benjamin Kemp, Robert Marsh, Samuel Oliver, William Percival, George Simpkin, Anthony Temple, Henry Waleb, and others.

Answers to the REBUSSES in the laft Year's DIARY. By Mr. Benjamin Kemp.

PEAT, and Excise, Gough, SIMPKIN and COLLEDGE, Are your Rebuffes three; or you've out-done my knowledge.

Aniwered also by the Master of the RED-LYON Inn, Barnet.

Was my beer, worthy PEAT, from EXCISE but once free, 1. 3 With friend Weft, and Mils Stow, I merry would be; Good fare I'd provide 'em, with liquor fo fine; GOUGH, COLLEDOR and SIMPKIN fhould off with me dine; For fuch be the gents, that help t'keep up my fign.

Answers to the Queries in the last Year's DIARY.

I. Answered by Mr. JOHN JACKSON.

This reason proceeds partly from all the three causes mentioned in the Query. 1. The air within it, not only supports the ambient air, but also the two abutted elliptical domes. 2. Those elliptical domes

bear a preffure equal to arches (every way) on this confiruction, which cannot be forced together, to long as the materials laft; ---- therefore, 3dly, The hands being of a fofter texture than these materials cannot break it.

2. QUERY answered by Mr. BENJAMIN CLEYPOLE.

CROWNS are defined to be an ornament. &c. and as fuch. I find they were originally used; as may be seen, Exodus xxv. v. II. where a golden crown was to ornament the ark, &c. and verfe 25, the fame ornament for the table, &c. and (per query) " and who may be faid to have wore the first gold one !" If we compare the 30th verse of the 29th chap. of Exodus with the 6th verse of the 29th chap. it will appear that AARON was the first that wore a GOLD CROWN, &c.

Mr. WILLIAM SWIFT; anfwers the ad Query, thus;

One Simon Eyre, a thoemaker, being chosen Lord Mayor of LONDON, made a pancake-feast on Sbrove Tuesday, for all the apprentices in LONDON ; and from that time it became a cuftom.

He ordered, that upon the ringing of a bell in every parish, the apprentices should leave work, and shut up their shops for that day; which being ever fince yearly observed, is called the pancake bell. He made them a large feast of pudding-pies, and pancakes : and what remained when all had dined, was given to the poor. Then after, in that year, he built Leadenball.

In answer to the 4th QUERY Mr. JOSEPH JAMES fays; That, COACHES were first introduced into England, in the year 1155. But Mr. R. F. I. LONDON, fays, COACHES were first introduced into England, in the year 1589; and backney-coaches in the year 1693. The first Statesman that ever fet up this equipage, was John de Laval de Bois Dauphin; who could not travel on borleback on account of his enormous bulk. Queen Elizabeth, as we find by hiftory, uled to go even to the parliament house on horseback.

Since the PARADOXES take up fo much room, and to fo little purpofe; feveral ingenious correspondents have advised, and defired me, not to infert any schemes of that kind this year : therefore shall proceed to, NEW ÆNIGMAS to be answered in the next Year's DIARY.

I. ÆNIGMA 318. By Mr. GEORGE BRENTNAL, of Normanion upon Soar.

> Each Diarian bard muft own my cafe hard ! I'm black, both without and within : My master's a clown, drags me up and down And has cut a great hole in my fkin ; Before this was my lot, I fill'd many a pot, And rejoiced the young and the old, Both my Master and Mils, my lips they would kils, Whilft a good merry ftory was told. I was much with the poor, and out o' door, When the weather was pleafant and warm, I was dragg'd by the nofe, and ne'er did oppofe, And they knew I should do them no harm;

Was

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Was not faucy nor nice—nor e'er play'd at DICE, And yet, fuch hard fate was my lot; I came off a cow, but I cannot tell how : You may think by a bull I was got.

S. ÆNIGMA 319. By Mr. ANTHONY TEMPLE, of Norton, near Sheffield, answering all the ÆNIGMAS in the last year's DIARY.

Æ.

5

Fierce Boreas bent on wild defiruction, raves, Lafhes his fides, drives the tremendous waves; From deep abyfs! th' impetuous furges roam, And in the face of Heaven fpit their foam ! Whilf Latium's bard—he makes his bero rove, Thro' unknown firands, the fugitive of Jovz. To bim I lent my aid;—and as he pleas'd, I rous'd the billows, or the florms appeas'd !

I fkill'd in fong, in tuneful order ftand; Wonders to fhow of heaven, air, feas, and land : Let MAGIC-LANTHORN ber perfections thow, When DARKNESS reigns, and brings her charms to view : Let her roufe up heroes of STRENGTH from far. Achilles, Ajax, or the God of war ! With nobler scenes than these I feast the eyes: I lift each god-like mortal to the fkies ! Whilft only fbe dumb effigies purfue, I bring both life and action up in view ! I truth can tell, or falfhood can devife, Exceed the truth, or mingle truth with lies ! I'm call'd the darling of the delphic maid, Honour, vice, virtue, SCANDAL, are my trade ! Slander, when urg'd by me (ye wits avaft) Traverfe thro' nations, fwift as winged hafte ! In Wales I've been, t' heap honors on the leek, To Latin I'm no ftranger - nor to Greek : Princes-nay kings! to me oft grant the bays, When I from CORK'D up wine ambrofia raile. My thapes are many, and more arts endue, Your friend (difguis'd) than ever Proteus knew ! Whether I in the realms of Pluto rove, Or in the confines of Idalian JovE, (It matters not) I've oft fuch talen's giv'n As can defcribe hell, empty space, or heav'n ! I charms poffeis to pleafe the GRAVE, the gay; Frequent the churches, masquerades, and play ! Garrick, poffels'd of me, fteps on the ftage, "Tis by my aid be charms the lift'ning age; "Tis I that makes bim pleafe ---- whilft thro' the dome, Claps (loud as thunder) fhake the vaulted room ! How far more great than Helena I prove, Who facrific'd vaft numbers to her love ?

28 New Ænigmas, to be answered next Year.

For, when I choose Olympian duft to raite, I build on mortals, manuments of praife 1 My merits are not known to ev'ry tool, But oit abus'd by fons of rdicule; Down to time pretent, from the days of yore I've been obferv'd in mathematic lore! My cealing is; with virtue, and with vice, And can tell the vicifitudes of dice! When jokes are us'd, or waggith puns prevails, I can delight men with their finger-nails; SIMKIN, GOUGH, COLLEDGE, have me feen in flate, Nor am I ftrangee unto ancient PEAT; My deeds are ever ufelefs to th' Excise Declare my name, and win the laurel prize,

3. ÆNIGMA 320 By Mr. WILLIAM SWIFT, of Stow, near Lincoln. Ten thousand thousands owe their birth to me,. To me ten thousand thousands bow the kneel By me, unhappily fome meet with death; To fome - I ev'n deny the gift of breath: Tho' now I live on earth, --to me you owe Your being (under Gop) -----all that you know: Poets are oft my friends-- and oft my foes; I think, I need not any more difchole.

> 4. ÆNIGMA 321. By Mils POLLY STOW. Of arts and fcience MISTRESSES!—we teach Lay clerks to ling,—and hallowed ones to preach! Numbers we fcan,—in Euclid's circles tread; We round the planets crbs, great NEWTON lead! Does this perplex ' attend one myfl'ry more, The firft and laft-plac'd of our race explore And tell the names which feraphims adore!

5. ÆNIGMA 322. By Mr. WILLIAM WYLD, of Leeds. Let others boaft of their fuperior birth, Delin'ate their pre-eminence and worth ; Be it my care, with caution to conceal

My pedigree, in ænigmatic tale : Yet (without vaunting) will relate an age, Few have attain'd who grace DIARIA's page!

E'er fandy defert, or the fhady plain Imbib d the lucid drops of pregnant rain : E'er fruits nectarean from their bloffoms grew. Hong on a tree; and bent the plant bough : E'er from a branch one virgin bud fhot forth, I took my rife—and rang'd this globe of earth ! Nor am I now lefs active than before, But fill retain the fame progrefive pow'r; Vifit with foft falute umbrageous trees, Lodge on the tops of fycamores with eafe,

Some-

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Sometimes from paarbers I the game defend, To wand ring birds, to quadrupedes a friend : A friend to man—yet is my nature fuch, Regardlefs of the bufy mortal s touch, I his embrace elude—his grafp refufe, Thwart his defigus—Invalidate his views; Baffle his fchemes his pleafure to fulfl, Nor yield obedience to his felfifh will: My empire o'er, when I'm no longer feen, Silent memorials fhow where I have been.

If yet to greater honor you wou'd rife, Draw back the curtain – take off this difguife; To each enquirer fpecify my name, The clarion's found thalt then your praife proclaim !

6. ÆNIGMA 323. By Mr. GEORGE LANGLEY, of Wrangle, Lincolnihire.

By whims in drefs, folks play the fool, Invite contempt and ridicule ! Reafon in these feems mear pretence As MODE predominates o'er fenfe !

Thus (hear my tale and) you'll agree, Fantafic treatment's forc'd on me; For, fee me now my wings expand, And by the fire take my fland; Where drefs exub'rant I can boaft, For, in *that* place I'm cloth'd the *moft I* When fickle fancy's pow'rful fway Commands, I'm fript of clothing gay; Made a *reclufe*;—nay, what is more, Am turned naked out of door; Expos'd to wint'ry winds that blow; In hoary frofts and fleeey frow !

Ufage moft firange you'll fay t'endure Hard and fastaftic, to be fure Yet, howe'er whimfical and vain, I'm feldom drefs'd expos'd to rain l

Again, --- when fummer-funs pervade The flocks that feek the noon-tide flade; Burden'd, I move with clothing gay, And front the potent fource of day! Both faces garbs I wear polite At once !-- tho' no bermaphrodite,

Many there are (it is well known) My drefs difcarded oft put on; And, as you GENTS the favour fhare, I pray from hence my name declare.

7. ÆNIGMA

30 New Ænigmas, to be answered next Year.

7. ÆNIGMA 324. By the PILGRIM.

DIARIAN Gents ! your attention a moment, And then I requeft you to give me your comment. It matters not from whence I came, Or how I first receiv'd my name; Let this fuffice-In days of yore, 'Fore England law a black-a-moor : I ne'er was heard of-never feen, By Subjest, nor by KING nor QUEEN! But now, contrarieties take place, And quite reverse you'll find the cafe : You'll fcarce an habitation find. (Except for beafts) but there's affign'd; A throne for me; where prim I ftand, Like one who tways with fole command ! When I was borne I was defign'd, A gen'ral friend to all mankind ; And yet (tho' few) fome men will rail. And think my fervices grown stale : Unkindeft treatment to the fair. From whom I ev'ry bleffing fhare ! True as the light that glads the day. My welcom'd fervices I pay; My bafis when I fland upright, Is broader than is requifite : Yet, -fad cataftrophe to tell ! 'Tis known I from my throne have fell, Down to the fireaming flood below, And caus'd an inundations flow ; For which offence no pardon's given, . No patronage receiv'd from Heaven ; And if not death, -revenge they cry ! Straightway I then am hurl'd on high, And by the neck in rutklefs chains, I'm bound fo long as life remains. Now fons of the MUSES your talents difplay. And tell who I am that's to tortur'd I pray.

8. ÆNIGMA 325. By Mr. THOMAS TRUSWELL, OF NUN-EATON.

Ye prying wits, who can with half an eye, The meaning of the darkeft hint defery; Attend to me an harmlefs firanger fure, Who feems at prefent in a drefs obfeure;

My form (ye GENTS) is oft ambiguous found, I'm fquare, I'm oval, and fometimes I'm round: In various colours I am always feen, In blue, or purple, or the verdant green;

With

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With due attention, look but in my face, The role and *ily* there, perhaps you'll trace; *Woodbines* and *wilets* curioufly entwin'd, Or, juft what pleakes beft my mafter's mind i I'm always handled with peculiar care, Both morn and evining wait upon the fair; With elemental fweets I'm often grac'd, Such fweets as pleafe the faireft lady's tafte a Shou'd Doll by accident but make a urip, Or loofe her hold, or fuffer me to flip; Down falls a tribe ! a moft deftructive band, The bane of thoufands in the Britifb land.

By what is faid, I make no longer doubt, But ye DIARIAN bards will find me out.

9. ÆNIGMA 326. being the PRIZE ÆNIGMA this YEAR 3 By Mr. BENJAMIN WEST, of Weedon-beck.

> Ardua prima via est; Ultima prono via est. ---- Ovid.

Two travellers in mafquerade presume To make a visit-RIDLERS! Give us room. True brothers we, with each a gaping mouth. And known from Eaft to West-from North to South; Strange one-ey'd monfters (let the truth be told) Like Brontes and Pyracmon, fam'd of old ! Tho' fmall in flature, each exterior part, Defies the fpear, and mocks the pointed dart. Above the earth we oft difplay our forms, When angry JOVE bestrides the threat'ning forms a Cas'd in bright armour, like old Pælus' fon, We feel no fears, no dangers ftrive to fhun ; When thund'ring peals from heav'ns high arch refound. And fheets of livid vengeance glare around : When thro' the world bellona fpreads alarms, And bids the Britif Lion roufe to arms ; Each chief participates the martial flame, And each impatient bosom pants for fame ! Anon the trump, fhrill founding from afar, Infpires a pleafing dread ! --- The kindled war Begins to rage-fee " might oppos'd to might," And fnorting fleeds anticipate the fight.

Now we appear amidft the marfhal'd train, And bear the hero o'er th' embattled plain; With dauntlefs fpeed we rufh upon the foe, While thro' our mouths the crimfon torrents flow. Yet, not to fcenes of war alone confin'd, In fports and bufinefs we've our parts affign'd :

When

32 New Ænigmas, to be answered next Year.

When pleafure calls, we join the jovial chiec, And never fail to mingle in the race;— Attend electioncering cavalcades; And, like the dryads haunt the fylvan fnaces. Purfu'd by fharpers, oft we urge our flight O'er dreary paths, involv'd in fnades of night. PRINCES and courtiers on our aid depend, Priefs, lawyers and phyficians we befriend; But may perchance, deceive them in the end. So fail (ala(s!) is ev'ry earthly truft, So foon my pride be humbled in the duft ! This truth perpend—and foorn the thin difguife— By us, may monarchs fall—and waffals rife.

I REBUS by Mr. WILLIAM SWIFT. FROM the reverfe to *beat* take a hundred, you'll fee, If you live to twice fifty, what then you will be.

2. REBUS by Mr. ANTHONY TEMPLE. IF to a diversion connected there be, One half of the place where I can be most free; Thefe, when rightly united a name will complete, Of an extensive genius of an ancient date.

3 REBUS by Mr. BENJAMIN CLEYPOLE. ONE *ibird* of a thing which boys oft whip about, One *fiftb* of what mifers will not do without; One *fixtb* of a man that's reputed a thief, (Altho' he affords moft people relief) One *balf* of a grain that's old *England*'s fupport, Will name a DIARIAN (you may take my word for't.)

I QUERY by G. H. NOTTINGHAM.

Pray GENTLEMEN will you this query explain, If a man with long feet, an advantage does gain; Of one who has forter? — Determine I pray; Tho' their legs of a length (in a long fummer's day.)

2 QUERY by Mr. PATRICK HALL.

It appears from *cbronology*, that the first appearances of the *aurora borcalis*, or northern lights, was in the year 1718; and feveral mathematicians fince, have faid; that they proceed from the vapouts afcending by exhalation: if fo; what is the reafon they did not appear before the faid year 1718.

3 QUERY by Mr. JOHN JACKSON.

WHY do baddocks, as well as fome other fresh fish, when hung up in dark places, appear to reflect a firong light.

ANSWERS

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8 1

Answers to the QUESTIONS in the laft Year's DIARY. 1. QUEST. 229. answered by Mr. ALEXANDER RowE. FIRST; 3x+= ought to have been printed infread of xuy+-z. Then, put 14158 = a; 43415089 = b; and 5276 = c. Then, from the first and third equations by reduction we have $z = \frac{a+x-xy}{x}$ $= c - 3x \cdot y = \frac{a+x}{c-2x}$ Hence, z being = c - 3x; $z^2 = \frac{y}{c-3x^2}$; and $y^2 = \frac{a+x}{c-2a}$; which put for z, z^2 , and y^2 , in the fecond equation; we get $x \times (-3x)^2 + x^2 \times (-3x) + \frac{a+x}{(-3x)^2}^2 = b$. folved, gives $x \equiv 1754$; and thence $y \pm 9$, and $z \pm 14$, confequently this amiable Fair was 23 years of age the 14th day of September, 1777. 2. QUEST. 430. anfwered by Mr. WILLIAM WINN. Pur n=5; m=6; a= area of the triangle. s=S45°, x and y=S, and cof. 2 CAD. z=AD; then $sx + yx \equiv s$. < BED; and n : m :: x: $\frac{mz}{2} \equiv BE$, and I (Radius): $\frac{mz}{2}$: : sx + sy: $\frac{mz}{2}$ $\times sx + sy \equiv BC;$ then $xy(AC): \frac{mx}{2} \times sx + sy:::::$ $\frac{m}{ny} \times sx + sy \equiv tang. < BAC. and <math>\frac{m}{ny} \times sx + sy$ $=\frac{2xy}{y^2-x^2}$. Then put $e = \frac{2n}{m_s} - 1$; and $y^3 - x^3 - A$ $x^2y \equiv ey^2x$; then by writing $\sqrt{1-x^2}$ for y its equal; x is eafily found

=, 434553 let the area be what it it will. Then put $a \equiv$ the given area; s, and c, \equiv the nat. fine and cofine of the < BAC $\pm 51^{\circ}$ 38'; then BC = $\sqrt{\frac{25a}{2}}$ and AC = $\sqrt{\frac{2ca}{2}}$.

3. QUEST. 431. answered by Mr. ISAAC ROWBOTTOM. eEd KG F R C

LET CF, and GB; be the diameters of the given circles; K and L their centers ; abid. = one half of the required parallelogram; draw DE and join aL, C 6K. Then ELI =EF.

EC=BE. EG .. BE : EC : : EF : EG. and by comp. &c. BE+EC : EF+EG s: BE : EF. Whence

Questions in 1778, answered 1779.

by division as BC-FG (40) : GF (9) : : BE-EF (23) : EF = 5 7

34

whence the area of the fpace GDFR is very calily had = 129,46844. Alfo (by <u>47. Eu. 1.) $\sqrt{13^2-x^2} = Kd$, and $\sqrt{16^2-x^2} = Le$, where $x = bd - ae :: \sqrt{13^2-x^2} + \sqrt{16^2-x^2} - d \times x =$ the area *cabd*, a maxluxed, $\mathfrak{S}^{c_1} \times = \mathfrak{G}$, 265374. and the area is 76,598394. W. W. R.</u>

The fame answered by Mr. WILLIAM SHERWIN. LET $x \equiv GE$ (fee laft fig.) then $ED^2 \equiv EF \times CE \equiv BE \times GE \equiv$ $9-x \times 17+x \equiv 3^{2}-x \times x$; whence $x \equiv 3\frac{33}{40}$; and the area GDFR is eafly had $\equiv 129.5$. Now put $z \equiv bd \equiv ae$; then will $\overline{13^{2}-z^{2}}|\frac{1}{2} \equiv$ KD, and $\overline{16^{2}-z^{2}}|\frac{1}{2} \equiv Le \cdot z \times \overline{13^{2}-z^{2}}|\frac{1}{2} \pm z \times \overline{16^{2}-z^{2}}|\frac{1}{2} = -11z$ \equiv the area of the parallelogram $eabd \equiv a$ max. in fluxions, $\&c. z \equiv$ $6_{2}26_{5}$, and the area $\equiv 76.6$ nearly.

The fame answered also by Mr. WILLIAM WINN.

DESCRIBE the two quadrants LRO, 0 P HRP. Then put AR =7,825=a; DR= A 12,175=e; radius CR =r, and MR =n; D G and IG_KF_x. Then $\sqrt{r^2-x^2}$ -GB. B E and $\sqrt{n^2 - x^2} = FE$. And $\sqrt{r^2 - x^2} - a =$ IN. And $\sqrt{n^2 - x^2} - 2 = KN$. Then, x $\sqrt{r^2 - x^2} - ax + x \sqrt{n^2 - x^2} - ex = a \max$. H M T C +2x-2x2x n2 x-2x2 x per question. And in fluxions $\sqrt{r^2 - x^2}$ - ax - =ex=c. nn-xx

and $\frac{r^2-2x^2}{\sqrt{r^2-x^2}} + \frac{(n^2-2x^2)}{\sqrt{n^2-x^2}} \equiv a + \epsilon \equiv 20$. And reduced, x is eafily

found \pm 6,26534; and the area of the greatest inferibed parallelogram is 76,5985.

4. QUEST. 432. answered by Mr. THOMAS WALKER.

LET $R \equiv 1,05$, $P \equiv 8400$; and put $x \equiv$ the time in which the debts will be equal. Then we fhall have $13R^{x}+23R^{x-1}+33R^{x-2}+43R^{x-3}$ \mathscr{C}_{c} , to x terms $\equiv C$'s debt in the time $x \equiv R^{x} \times : 1+23a+33a^{2}+43a^{3}$ \mathscr{C}_{c} (by writing a for $\frac{1}{R}$) the fum of which ferries infinitely continued

will be $\mathbb{R}^{x} \times \frac{1+4a+a^{2}}{1-a|^{+}}$ (by p. 223 Simpfon's Algebra) but as x terms is only wanted, the fum of the remaining terms muft be found, and deducted from the whole infinite ferices. Now it is evident (by the law of the ferics) the x term will be $\mathbb{R}^{x} \times x^{3}a^{x-1}$; and the following terms will be $\mathbb{R}^{x} \times : \overline{x+1}]_{3 \times a^{x}} + \overline{x+2}]_{3 \times a^{x}+1} + \overline{x+3}]_{3 \times a^{x}+2} + \mathfrak{Se}_{c}$.

 $\frac{-R^{x} \times x^{3} + 3x^{2} + 3x + 1}{x^{3} + 9x^{2} + 27x + 27} \times a^{x} + x^{3} + 6x^{2} + 12x + 8 \times a^{x} + 1 + x^{3} + 9x^{4} + 27x + 27 \times a^{x} + 2 + 8c_{0}$

Now

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Now these terms properly collected will form the four following infinite feries.

 $\mathbf{R}^{x} \times \begin{cases} x^{3} \times : a^{x} + a^{x+1} + a^{x+2} + a^{x+3} + \mathfrak{C}_{c}, \\ 3x^{2} \times : a^{x} + 2a^{x+1} + 3a^{x+2} + 4a^{x+3} + \mathfrak{C}_{c}, \\ 3x \times : a^{x} + 4a^{x+1} + 9a^{x+2} + 16a^{x+3} + \mathfrak{C}_{c}, \\ a^{x+8}a^{x+1} + 27a^{x+2} + 64a^{x+3} + \mathfrak{C}_{c}. \end{cases}$ Whole Sums

if infinitely continued will be $x^{3}R^{x}a^{x} \times \frac{1}{1-a}$; $3^{x^{2}}R^{x}a^{x} \times \frac{1}{1-a^{2}}$ $3xRxax \times \frac{1+a}{1-a^3}$; and $Rxax \times \frac{1+a-a^3}{1-a^4}$; but $Rxax \equiv \frac{Rx}{Rx} \equiv 1$. Therefore $\frac{x^3}{a}$; $\frac{3x^2}{1-a^2}$; $\frac{3x-3xa}{1-a^3}$; and $\frac{1-4a+a^2}{1-a^4}$ will be the furm of each feries respectively. Therefore the fum of x terms or C's debt in the time x, will be $\mathbb{R}^{\times} \times \frac{1+4\alpha+\alpha^2}{1-\alpha} + \frac{x^3}{1-\alpha} - \frac{x^2}{1-\alpha}z^2$ $\frac{3^{x}+3^{x}a}{1-a^{3}} - \frac{1+4a+a^{2}}{1-a^{4}}$. And A's debt in the time x will be PR* - $100 \times : \mathbb{R}^{x} + 2\mathbb{R}^{x-1} + 3\mathbb{R}^{x-2} + 4\mathbb{R}^{x-3} = \mathbb{P}\mathbb{R}^{x} - 100\mathbb{R}^{x} \times : \mathbf{r}$ + 2a + 3a2 + 4a3 + Sc. to x terms. which will be had by proceeding as above, $= PRx - 100 \times \frac{Rx}{1-a}^2 - \frac{x}{1-a} - \frac{1}{1-a^2}^2$. Then (per Queft.) $R_x \times \frac{1+4a+a^2}{1-a|4} - \frac{x^3}{1-a} - \frac{3x^2}{1-a|^2} - \frac{3x+3xa}{1-a|^3}$ $R + \frac{4a+a^2}{1-a|^4} = PR_x - 100 \times \frac{Rx}{1-a|2} - \frac{x}{1-a} - \frac{1}{1-a|^2}$. Which Then put into numbers and reduced, we have $54641R^{2} - x^{3} - 63x^{2} -$ 2683x=55041. folved, x=11,3985 years nearly the time when the debts are equal; which answers the first part of the question. Then, by making $\mathbb{R}^{x} \times \frac{\mathbf{1} + 4a + a^{2}}{\mathbf{1} - a} - \frac{x^{3}}{\mathbf{1} - a} - \frac{3x^{2}}{\mathbf{1} - a} = \frac{3x + 3xa}{\mathbf{1} - a^{3}} - \frac{3x^{2}}{\mathbf{1} - a^{3}}$ $\frac{1+4a+a^2}{1-a)^4} = 8400; \text{ we have } x = 12,524 \text{ the time when C's debt will}$ be \$4001. Now it appears, from a little confideration ; that A's debt will be greateft, when the intereft thereof for any interval of time, be-

comes equal to his payment to B at the fame time; confequently, PRx -100 $\times \frac{Rx}{1-a} = \frac{x}{1-a} - \frac{1}{1-a} = \frac{100 \times 1+x}{.05}$. From whence, we get x = 3.575 years, when A's debt will be the greateft. Again, by by making PRx - 100 $\times \frac{Rx}{1-a} = \frac{x}{1-a} - \frac{1}{1-a} = 0$. We get C z = 15,865 =15,865 years, the time when A's debt will be paid; at which time C's debt will be 21/. 155. 8d.

5. QUEST. 433. answered also (only) by the fame.

LET P reprefent the pole, HO the horizon, &c. and S the place of the fun when his altitude was 32° 17'36''; and s his place one hour after. Then, in the ifofceles triangle SPs, there are the two fides and the included angle given hence the perpendicular $wP = 71^\circ 42' 13''$ and half the bafe $Sw = 7^\circ 7' 30''$; which taken from the complement of the given altitude;



leaves $Zv \equiv 50^{\circ}$ 34' 54". Then, in the right angled triangle ZvP we have Zv, and vP given; hence the latitude is 11° 30'.

6. QUEST. 434. answered by Mr. WILLIAM WINN.

Put $n \equiv a+b^2$, then the given equation becomes $ny^2 - nx^2y^2 \equiv x^{2m}$; and $y^2 \equiv \frac{x^{2m}}{n - nx^2}$; then $y \equiv n - nx^2$ $\left| \frac{1}{2} \times x^m \right|$; and the fluxion of the area is $\dot{z} \equiv n - nx^2 \frac{1}{2} \times x^m \dot{x}$; and the fluent by Form 16th of Mr. Emerfon's tables is $\frac{x^m + 1}{\sqrt{a + b^2} \times m + 1} + \frac{x^m + 3}{2m + 2 + 4} + \frac{x^m + 5}{4m + 4 + 16}$

The fame answered by Mr. EDWARD PARNEL.

By reducing the given equation of the curve we get $y = \sqrt{a+b^2}$ $\times \sqrt{1-x^2}$; therefore the fluxion of the area $= \dot{x}y = \frac{1}{\sqrt{a+b^2}} \times \frac{1}{\sqrt{a+b^2}} \times \frac{1}{\sqrt{1-x^2}}$ $\frac{x^n \dot{x}}{\sqrt{1-x^2}} = \frac{1}{\sqrt{a+b^2}} \times x^n \dot{x} + \frac{x^{n+2} \dot{x}}{2} + \frac{3x^{n+4} \dot{x}}{2 \cdot 4} + \frac{3 \cdot 5x^{n+6} \dot{x}}{2 \cdot 4 \cdot 6}$ $+ \frac{3 \cdot 5 \cdot 7x^n + 8 \dot{x}}{2 \cdot 4 \cdot 6 \cdot 8}$ & And its fluent $= \frac{1}{\sqrt{a+b^2}} \times \frac{x^{n+1}}{n+1} + \frac{x^{n+3}}{2 \cdot 4} + \frac{3 \cdot x^{n+5}}{2 \cdot 4 \cdot 6 \cdot 8} + \frac{3 \cdot 5x^{n+6} \dot{x}}{2 \cdot 4 \cdot 6 \cdot 8}$ & dister fluent $= \frac{1}{\sqrt{a+b^2}} \times \frac{x^{n+1}}{n+1} + \frac{x^{n+3}}{2 \cdot n+3} + \frac{3 \cdot x^{n+5}}{2 \cdot 4 \cdot n+5} + \frac{3 \cdot 5x^{n+7}}{2 \cdot 4 \cdot 6 \cdot n+7} + \frac{3 \cdot 5 \cdot 7x^{n+9}}{2 \cdot 4 \cdot 6 \cdot 8n+9}$ & c. the reguired area.

The fame answered by Mr. WILLIAM SHERWIN.

From the equation of the curve $y = \frac{x^m}{a^2 + b^2 \times \sqrt{1 - xx}}$; whence $iy = \frac{x^m \dot{x}}{a^2 + b^2 \times \sqrt{1 - xx}} =$ fluxion of the area; and its fluent $\frac{x^m + 1}{a^2 + b^2} \times : \frac{1}{m + 1} + \frac{xx}{2, \frac{1}{m + 3}} + \frac{1 \cdot 3 \cdot x^4}{2, 4, \frac{1}{m + 5}} + \frac{1 \cdot 3 \cdot 5 \cdot x^6}{2, 4, 6, \frac{1}{m + 7}} +$

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 $\frac{\mathbf{I} \cdot \mathbf{3} \cdot \mathbf{5} \cdot \mathbf{7} \cdot \mathbf{x}^8}{2 \cdot 4 \cdot 6 \cdot 8 m + 9}$ $\& c_c = \text{the area required.}$

7 QUEST. 435. answered by Mr. ISAAC ROWBOTTOM.

/ _ + + > > .
LET ABOS represent the
garden; ACB and QCS the Q S
sharmanal FOIL
and efgb the two nurferies; H P T S 1
and efgb the two nurferies; H P T S h
draw the ordinates PP; Pe;
and PT, which will be a E x
August to the summer of D
$=3=b$; $Gr=x$; and \mathbf{F}
Pr = CR = y; then, from A B
the given equation $p^2 x = y^3$; we have $\dot{x} = 3y^2 \dot{y}$ (by making $P = 1$).
$\frac{x^2y}{y} = 3x = RT = 3CR = 3y$ (because $Pr = CR$) and by the property
$v = 3x = RT = 3CR = 3y$ (because $PF \equiv CR$) and by the property
of the curve ACB we have DD - 1 3/ y 1 1 c 11
of the curve ACB, we have PR = $b \sqrt[3]{\frac{y}{2}}$; whence by fimilar tri-
4
13(
angles RT: PR :: Pr: $rt = \frac{b}{3}\sqrt[3]{\frac{y}{a}} = \sqrt[3]{\frac{y}{a}}$ (because $b = 3$):
$\frac{1}{3}\sqrt{\frac{1}{a}} = \frac{1}{a}(\text{becaule } 0 = 3)$
Again from the equation $px^2 = y^3$, we have $\dot{x} = \frac{3y^2\dot{y}}{2x} \div \frac{\dot{x}y}{\dot{y}} = \frac{3}{2}$
2.8
2,
y 27 2 16 2 1
$x = rt = \sqrt[3]{\frac{y}{a}} \cdot \cdot y = \frac{27}{8} ax^3$; also, by the property of the femi-
subic parabola HGF, we have $Grl_2: Prl_3::EGl_2:EFl =$
There parabola story at mart -
$\frac{27}{3}$ $\frac{3}{2b-7x}^2$ $\frac{27}{3}$ $\frac{2b-7x}{2b-7x}^2$
$\frac{27}{8}ax^3 \times \frac{2b-7x}{2}^2 \div x^2$, Confequently $\frac{27}{8}ax^3 \times \frac{2b-7x}{2}^2 \div x^2$
8 2 8 2
$\times \frac{2h-7x}{2} \times \frac{3}{5}$ = the area of the femiparabola EFG a Max. In
· · · · · · · · · · · · · · · · · · ·
fluxions $7x^6 \dot{x} \times 2b - 7x^{15} - 35x^7 \dot{x} \times 2b - 7x^{14}$ reduced, $x = \frac{1}{6}b $
L. CE C CEE
$\frac{1}{2}$ · · · GE = $1\frac{1}{4}$, & EF = 1,16565.
Again, as DC: DB3:: RC: $Re = b \sqrt[3]{\frac{y}{q}}$; then DB - $Re = ef$
Again, as DC: DB3:: RC: $Re = bV - i$; then DB - $Re = ef$
a
$= b - \sqrt[3]{\frac{y}{a}} \cdots ef \times ge = b - b \sqrt[3]{\frac{y}{a}} \times 2y \text{ area } efgb, a \text{ max.}$
$= b - \cdots = f \times ge = b - b V - \times 2y$ area efgb, a max.
<i>u u</i>
fluxed Sc. $y = ,6328125$. Laftiy, from the equation $p^2x = y^3$, we have
$yx = 3y^3y$ the fluxion of the area of the curve (or canal) ACB, whole
fluent is $\frac{3}{4}xy$; but when $x \equiv a$, $y \equiv b \cdot \cdot \frac{3}{4}ab \equiv 6,75$ fquare chains,
the area of the canal ACB. Alfo, 1,748475 = the area of the nur-
C 3 fery

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fery HGF; and, 94921875 iquare chains == that of the nurlery efgb, from whence all that is required may be eafily known.

Otherwife. Let $ADQY = \frac{1}{2}$ of the garden; ACD and $QCY = \frac{1}{2}$ of the canals; HGF, and IPKP the nutferies. Produce KP to R, and put AD - b = 3; DC = 1! = a; PR = y. Then $Pr = CR = ay3b - 3 \times b - y =$ the area of EKPr, a max. fluxed $Cc. y = \frac{a}{2}b$. Now it is well known that the fubtangent to the femicubic $\frac{1}{4}$ parabola is $\frac{2}{3}$ of its corresponding abfe. \cdots (by Simpfen's Geom, p. 201.) as $\frac{3}{2}$ Gr : PP : $\frac{3}{2}$ Gr + Er : 2PP. Hence $Gr = \frac{1}{2}$. Then, as $\frac{1}{2}2$: PF $\frac{1}{3}$: $GE^{1/2}$: HF $\frac{1}{2}$; and HF = 2,3313, the fame as above.

The fame answered by Mr. THOMAS WALKER.

LET ABCD represent half the garden, 5) AVB one half of the canals, and half the parabolic nurfery; and HIK half the rectangular one; and let PT be a tangent to each curve at the point P; and through P, draw He parallel to CD, and put x = vr, S and y = Pr = RV; a = SV = 3, and b P. P = SA = 1 $\frac{1}{2}$. Then (Ex. 3 p. 203 Emer fon's fluxions) the fubtangent $rt = \frac{3}{2}rv = \frac{3x}{2};$ di P and the fubtangent $RT = _{3}RV = _{3y}$, and by the property of the curve, $a:b3::y:\overline{RP}^3: RP = b^3 \frac{y}{r};$ And (by fimilar triangles) RT ; RP :: Pr: $n = \frac{b}{3}\sqrt{\frac{y}{a}} = \sqrt[3]{\frac{y}{8a}}$ (because $b = 1\frac{1}{2}$) therefore $\sqrt[3]{\frac{y}{8a}} = \frac{3x}{2} \cdots y = 27ax^3$, and $Dv = b - b\sqrt[3]{\frac{y}{2}} + x$ $=\frac{3-7x}{2}$; then by the property of the curve, rv^{2} : Pr^{3} : Dv^{2} : D_a : $D_a = 27ax_3$: $\times 3-7x_1^2 \div x^2$ $\frac{1}{3}$ (and by Ex. 2) page 252 of the above quoted fluxions) $\overline{27ax^3}^3 \times \frac{3-7x^2}{2}^2 \div x^2 \sqrt[3]{3} \times \frac{3-7x}{2}$ $x \stackrel{2}{\rightarrow} =$ the area of the femiparabola avD. In fluxions, Sc. $x = \frac{1}{4}$. $y = \frac{61}{64}$; $vD = \frac{5}{8}$; Da = 2,3309; and the area of the femiparabola = 8742375; and, $8742375 \times 2 = 1748475 =$ the area of the whole Again, $a:b3::y: RI = b\sqrt{\frac{y}{y}}$; and $b-b\sqrt{\frac{y}{y}} = HI$, and nurfery. $by - by \frac{\gamma}{2}$ = the area of the parallelogram IHCK = a maximum in N°. 39. GENT. DIARY; or, Math. Repofitory, 1779. 39 in fluxions and reduced $y = \frac{8x}{64} = HC$ ··· $[IH = \frac{3}{5}]$; and the area of the whole nurfery $\frac{8x}{64} \times \frac{3}{8} \times 2 =$, 94921875; and the area of each of the canals $= \frac{3BA \times VS}{2} = 6,75$, and the remaining part of the garden x,80230625 (quare chains.

The fame answered by Mr. WILLIAM PERCIVAL. Put b = 150 = AB, and a = 300 = DB; x = EF. Then p2# = $3y^2 \dot{y}$, and $\dot{x} = \frac{3y^2 \dot{y}}{p^2} \cdots \frac{3y^2 \dot{y}}{p^2}$ C = the fluxion of EFG; whole fluent $\frac{3y^4}{4p^2} = \frac{3p^2xy}{4p^2} = \frac{gxy}{4} =$ A E K K the area of the fpace EFG ... H $\frac{3^{ab}}{2} \times 4 = 3^{ab} = 135000 \square$ links = I A. I R. 16 perches = area of the canals. Then, by the nature of the canals, $a:b3::x:\frac{xb3}{2}=FG^{13}$; and $FG=b3\sqrt[3]{x}$

•. GC =
$$b - b \sqrt[3]{\frac{x^4}{a}}$$
; and $bx - b \sqrt[3]{\frac{x^4}{a}}$; or $x - \sqrt[3]{\frac{x^4}{a}} =$

a maxim. which put into fluxions and reduced gives $2x = \frac{27a}{3^2}$

253,125 links the length of the required rectangle; and putting $\frac{27\pi}{64}$ for x in the value GC above, we get GC $= \frac{1}{4} b = 37\frac{1}{2}$ links =the breadth: hence the area = 15 perches. Now, from the curve HNK, whole equation is $px^2 = y^3 \cdots y = p^{\frac{1}{3}} x^{\frac{2}{3}}$; which $p^{\frac{1}{3}} x^{\frac{2}{3}} \div x^{\frac{2}{3}}$ the fluxion of the required curve, whole fluent is $\frac{3p^{\frac{1}{3}} x^{\frac{2}{3}}}{5} = \frac{3yx}{5}$; there-

the fluxion of the required curve, whole number is $\frac{5}{5} = \frac{5}{5}$, there fore this curve being $\frac{3}{5}$ of its circumforibing rectangle, when the rect-

angle is the greatest, the curve will be fo too; whole base and diameter

are = the length and breadth of the reftangle = $\frac{253, 125 \times 37, 5 \times 3}{5}$

= $5695,3125 \square$ links = 9 perches the area of the required curve, the remainder of the garden = 1 R. o8 P.

Mr. Edward Parnel, Mr. Alexander Rowe, and Mr. Ralph Thompton, (the propolers) are exactly the fame; which want of room will not admit of infertion; but take notice of the following remark. It appears that the two first following bed aniwer the conditions of the queficon: for the area of the nurfery in each are the fame (although the canals are taken the contrary way of the parallelogram) St.

8. QUEST.

QUESTIONS in 1778, answered 1779.

8 QUEST 436 answered by Mr. EDWARD PARNEL.

LET xz be wrote for y in the given equation, and it becomes x3 + $x_3z + x_3z_3 = ax_4z_3$; whence $1 + z + z_3 = ax_23$; and therefore x = $\frac{1+z+z^{3}}{az^{3}}; y = xz = \frac{1+z+z^{3}}{az^{2}}; \text{ and } z = \frac{3z+2zz}{-az^{4}}; \text{ and confe-}$ quently $py^2 = p \times \frac{1+z+z}{z^2}^2 \times \frac{3z+2zz}{-z^4} =$ the fluxion of the folidity; the correct fluent of which is $\frac{p}{r}$ $\times \frac{3}{7x^{2}} + \frac{4}{2x^{0}} + \frac{7}{6x^{2}} + \frac{2}{x^{4}} + \frac{10}{2x^{3}} + \frac{2}{x^{2}} + \frac{3}{x^{2}} + 2 \times \text{hyp. log.}$ $\frac{z}{b} - \frac{p}{a^3} \times \frac{3}{7b^7} + \frac{4}{3b^6} + \frac{7}{5b^3} + \frac{2}{b^4} + \frac{10}{3b^3} + \frac{2}{b^2} + \frac{3}{b}$ (where p =3,1416 and b = the value of z in the equation $x = \frac{1+z+z^3}{1+z+z^3}$, when x = 0) or by writing $\frac{y}{r}$ for its equal z, we have $\frac{p}{r^2}$ $\overline{\frac{3x^7}{7y^7} + \frac{4x^6}{3y^6} + \frac{7x^5}{5y^5} + \frac{2x^4}{y^4} + \frac{10x^3}{3y^3} + \frac{2x^2}{y^2} + \frac{3x}{y} + 2 \times \text{hyp. log. } \frac{y}{bx}}$ $-\frac{p}{a^3} \times \frac{3}{7b^7} + \frac{4}{2b^5} + \frac{7}{5b^5} + \frac{2}{b^4} + \frac{10}{3b^3} + \frac{2}{b^2} + \frac{3}{b} = \text{the folidity}$ required. The fame answered by Mr. ISAAC ROWBOT TOM.

Put $\frac{x}{1} = y$; 3,1416 = p; then $x = \frac{v^3 + v^2 + 1}{q}$ whence $x = \frac{v^3 + v^2 + 1}{q}$ $3v^2v + 2vv$ and the fluxion of the folidity is $py^2y = p \times \frac{v^3 + v^2 + 1}{2v} \times \frac{v^3 + v^2 + 1}{2v}$ $3\frac{v^2\dot{v}+2v\dot{v}}{2v^2}$ whole fluent is $\frac{p}{a\dot{v}} \times$ 3, v7+4, v6+7, v5+2v4+1, v3+2v2+3v+2, hyp. log. v; in which, placing - for v, gives (when x or y is a given quantity) the folidity required.

9 QUEST. 437. answered by Mr. THOMAS WALKER.

Put s = the fum of the two fides; a = the bafe; $m = 16\frac{1}{12}$; and x = the greater fide; then s - x = the leffer fide, and (prop. 24. B. 2. Emerfon's Geom.) $a:s::2x-s:\frac{2sx-x^2}{2sx-x^2}$ the difference of the fegments of the bale $\cdot \cdot \frac{a^2 + 2sx - s^2}{2a}$ = the greater fegment; and

m. 2.

404

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 $\frac{4a^2x^2-a^2+2ix-5^2\left|^{\frac{1}{2}}\right|^2}{2a} = \text{the perpendicular. And by the laws of}$ falling bodies $\frac{1}{m_{1}^{1}} \times \frac{4a^{2}x^{2}-a^{2}+2ix-i^{2}}{4a^{2}} =$ the time down the perpendicular; and $x \sqrt{\frac{2a}{2}} \times \frac{4a^2x^2 - a^2 + 2sx - s^2}{4} \sqrt{\frac{1}{4}}$ and $\overline{s-x}$ $\times \sqrt{\frac{2a}{m}} \times \overline{\frac{4a^2x^2 - a^2 + 25x - s^2}{a^2 + 25x - s^2}}^2 \sqrt{\frac{1}{4}} = \text{the time of falling down}}$ the fides. Therefore, s $\sqrt{\frac{2a}{m}} \times \overline{\frac{4a^2x^2 - a^2 + 25x - s^2}{a^2 + 25x - s^2}}^2 \sqrt{\frac{1}{4}} = a$ minimum. In fluxions, $\mathscr{G}_{c,x} \doteq \frac{[s^3 - sa^2]}{2s^2 - 2a} = \frac{s}{2}$; therefore the Δ is ifofceles.

The fame answered by Mr. EDWARD PARNEL.

By the principles of mechanics; the time of descent down any inclined plane, is as the length of the plane directly; and as the square root of its height reciprocally : therefore the times of defcent down the fides CA and CB (of the triangle ABC will be as $\frac{AC}{\sqrt{DC}}$ and $\frac{BC}{\sqrt{DC}}$ re-

fpectively; and their fum as AC×BC VDC ; A

R

which (per quefl.) is a minimum. But when $\frac{AC+BC}{\sqrt{DC}}$ is a minimum,

the \sqrt{DC} , and confequently the area of the triangle ABC, must be a maximum, (because AB and AC+BC are given quantities) and ... (per Theor. 5. p. 198. Simpfon's Geom. 2d Ed.) AC = BC, & AD = BD; and the triangle ABC, an ifofceles one.

The fame answered by Mr. ADAM OLIVER.

By mechanics, the time in falling down the perpendicular CD is as VCD; and the fum of the times in falling down CA, CB is as CB+CA $\therefore \sqrt{D}$ which will be a minimum as well as the real time. Now, as CA + CB is a given quantity, it is evident that \sqrt{CD} will be a maximum. The points A and B being looked upon as the foci of an ellipfis; CD will be greatest when it is the semiconjugate of that ellipsi; for by the property of the ellipfis, the femiconjugate is greater than any ordinate parallel to it. Therefore CA = CB; AD = DB.

to Queft. 438. admits of neither maximum nor minimum. It not being properly attended to before publication, Sc. which over $f_k B b t$ the editor hopes his kind contributors will generoully excute, on account of his then bad fare of health, Sc. And defires Mr. Syleph James in future) to be more careful in whatever he may propose to public consideration, Sc.

II. QUEST.

QUESTIONS in 1778, answered 1779.

II. QUEST. answered by ABDOLONIMUS.

K

LET E and W, be the caft and weft points of the horizon; then, it is evident, becaufe the oircition of the wind was due eaft, that the kite was due eaft from the boy. Therefore, let K the place of the kite, B that of the boy, K1B the fring; draw the ord. BK, which will reprefent the diffance of T the kite from the boy; alfo let C be the place where the fhadow of the kite feil upon the ground; and let DC, BC, KC,

and BT be drawn; then as BT touches the firing at B, it will therefore be a tang, to it st that point. Draw the fubtangent PT, and from K, let fall the \underline{I} KD. Put BI = 100 = s; tangent BT = t =137,3265146 yards; abs. PI = x, its corresponding femiord. BP = yfubtangent PT = v; and let a = the tension of the firing at I. Then (fuppoing the firing to form the catenarian curve) we fhall have $s^2 =$

 $zax+x^3$, and $\frac{sy}{a} = v \cdot \cdot \frac{s^2-x^2}{2x} = a = \frac{sy}{v}$ hence, $y = \frac{s^2-x^2}{2sx} \times v$.

But (by 47. Eu. 1.) $y^2 = t^2 - v^2 \cdot v = \frac{2itx}{s^2 + x^2}$; which written for

v, in the value of y found above, we get $y = \frac{s^2 - x^2}{s^2 + x^2} \times t = BP$ (by the

prop. of the catenary $\frac{s^2 - x^2}{2x} \times \text{hyp. log.} \frac{s+x}{s-x}$; from whence x is found = 50, & then BK = 164,7918176 yards, the diffance of the kite from the boy.

Again, the fun's decl. at the given time was $1^{\circ} 25' 18''$ found by proportioning the given hours from noon; confequently, there are given the lat. decl. and hour, to find the fun's alt. $\equiv 30^{\circ} 3' 8''$ to which adding 17' 32'' his femidiam and refract. -8'' his parallax (had from aftronomical tables) gives $30^{\circ} 20' 24''$ the apparent alt. of the fun's upper limb; and his azimuth from the eaft towards the fouth $\equiv \angle \odot$ DE $\equiv \angle$ BDC, whole cof, call b; BK $\equiv d$, cotang fun's alt. $\equiv c_i$ and let $x \equiv$ fine DBK. Then $dx \equiv$ DK, $cdx \equiv$ DC' $dx \sqrt{1-c^2} \equiv$ KC; and $d\sqrt{1-x^2} \equiv$ BD. Alfo by trig. d

$$V = x^2 + c^2 x^2 - 2bcx \sqrt{1 + x^2} = BC$$
, whence

 $\frac{c^2 dx - bc d\sqrt{1 - x^2}}{\sqrt{1 + c^2 \times d\sqrt{1 - x^2 + c^2 x^2 - 2bcx\sqrt{1 - x^2}}}} = \left(\frac{KC^2 + BC^2 - BK^2}{2BC \times CK}\right)$

 $= \sqrt{1+c^2 \times \sqrt{1-x^2+c^2x^2-2bcx}\sqrt{1-x^2}} = \text{cofine of } 32^\circ 57^1 48''$ = $\angle \text{KCB}$; from whence, by a quadratic equation, x is found = ,9183546; and the kites height; r_{51} ,33732373 yards, W. W. R.

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•.* As Mr. Beek (the propoler of the Prize Queffior) fent no folution along with it; and having this year received no fatisfactory folutions to the fame; although feveral ingenious correspondents have attempted to give folutions thereto. yet, some, through milking the dasa; and others, apprchending fome ambiguity in the terms under which it is procofed, &c. full therefore (for the prefent) omit inferting any of them; but leave the further confideration thereof to them, to another year, &c. full therefore in the next place, give fome emendations and corrections to fome folutions that have been published in fome preceding Diaries.

To begin then with QUEST. 7. proposed 1775, and answered in 1776. Mr. W. T. defires the following folution a place this year.

LET ABC be the garden; AI, HB, and KC, the three pillars; H draw GF perpendicular to AC. and thro' G, draw ED, parallel to AB; and put AB \equiv BC $\equiv a$ A =295,161, AC=6,=417,4206; A and put 16 12 c. Then, by the G laws of falling bodies, 9° -IA: F c = HB, and 4c = KC; then put x = the time of defcent down each plane (and p. 19. Emerson's mechanics $1\frac{1}{2}$: $\frac{9c}{2}$:: x: $\frac{3cx}{c} \equiv IG$, and in like manner $cx \equiv HG$; and $2cx \equiv KG$; and (per 47. Eu. 1.) $\frac{3^c}{2} \times x^{2-\frac{1}{2}} = AG; c \times x^{2-1} \stackrel{1}{\xrightarrow{1}} = BG; and 2c \times$ $\overline{x^2-4}$ $\frac{1}{2}$ \equiv CG. Then (cor. p. 23. B. 2. Emerfon's geom.) CD \equiv $\frac{a}{2} - \frac{15c^2}{2a} + \frac{3c^2}{2a} \times x^2 : \text{ and } \text{CF} = \frac{b}{2} - \frac{175c^2}{32b} + \frac{7c^2}{8b} \times x^2 ; \text{ for}$ which, subflitute $u + vx^2$, and $m + nx^2$. Now (by Sim. Δs) CB : CA :: $CD: \frac{bu+bvx^3}{a} \equiv CE$, and $CE - CF \equiv EF \equiv FG \equiv \frac{bu}{a} - m + \frac{bu}{a}$ $\frac{bv}{2}$ -n × x² = p+sx by fubflication. Then (p. 47. Eu. 1.) CF2 + FG² = CG²; that is, $\overline{m + nx^2} \Big|^2 + \overline{p + sx^2} \Big|^2 = 4c^2x^2 - 16c^2$. Re-duced, $x^4 + \frac{2mn + 2ps - 4c^2}{n^2 + s^2} \times x^2 = -\frac{m^2 + p^2 + 16c^2}{n^2 + s^2}$. In numbers $x^{\pm} + 408_{2}385x^{2} = -22926,664$. folved, x = 8,195. Hence all the reft is eafily had.

N. B. I took the times of defcent, I, I_2^I , and 2 feconds, and not as printed: for, as the *queflion* is printed, it gives $x+-228, 1932x^2 = -16314,4343$, which is imposfible.

The

The fecond QUEST. 1776. answered also by Mr. W. T.

LET K, be the center of the wheel, and put a = BF = DM = theheight of the fall; x = the radius of the wheel; and z = the fine of the angle EKF = GKF. Then (icho. p. 2. B. I. Emer- A T fon's trig.) 2 = V 1-z2 = B the fine of the angle EKG-DFM; and by trigonometry VI-z2:x::z: VI-22 Ð = FE; and $2z \sqrt{1-z^2}$: H M a:: 1: $\frac{a}{2z\sqrt{1-x^2}} = DF;$ G H

then DF - EF = $\frac{a-2z^2x}{2z\sqrt{1-z^2}}$ = DE; (and by fimilar triangles) FD: FB:: ED: EC = $a - 2z^2x$. But the force of the wheel will be as the velocity of the water on the floats at E, multiplied into the radius

of the wheel, or as $x \ge a - 2z^2 x | \frac{1}{2} = a$ maximum. Which (fuppoing z given) gives $x = \frac{a}{3z^2}$. From this expression, it is evident that if z be variable, x and confequently the force of the wheel will be greateft, when z is indefinitely small. Therefore the cafe in hand admits of no maximum in the under flot wheel, but when the angle DFM is indefinite.

nitely fmall, and the radius of the wheel indefinitely great. But in the overfall wheel the angle DFM is \pm 90°, and $\approx \pm$ the fine of 45°, and

 $x = \frac{2a}{2}$

REMARK. It appears, the under bot has greatly the advantage of the ever (bot wheel, when they act by impulse alone.

N. B. This folution is nearly the fame as that published, Prob. 27. of Mr. Emerfon's miscellanies.

A corrected folution to QUEST. 8. 1776. by Mr. W. T.

Put AB = a, the given object to be eut; DE = n; the force acting at E = m; and put x = the fine of half the required angle, then $\sqrt{1-x^2}$ = the cofine; then by trigonometry, x: $\frac{a}{2}$:: 1: $\frac{a}{2x}$ = BD.C And, by the property of the lever $\frac{2m\pi x}{a}$ =

the force at B, acting upon the perpendicular BC; but the force upon 2 BA,

Nº. 30. GENT. DIARY; or, Math. Repolitory, 1779. 45 BA, is to the force upon BC, as the angle GBD is to radius; that is as $\sqrt{1-x^2}$: I: $\frac{2mnx}{a}$: $\frac{2mnx}{a\sqrt{1-x^2}}$ the force to cut AB; a maximum or $\frac{x}{\sqrt{1-x^2}} \equiv$ a maximum. In fluxions, $\Im c. x = \sqrt{\frac{1}{2}} \equiv$ the natural fine of 45° . Hence the angle BDA = 90° , at which the feiffars will cut the beft.

NEW Mathematical QUESTIONS to be answered in the next year's DIARY.

(1) QUEST. 441. by ABDOLONIMUS.

Four equations I fend, in hopes that fome friend Will hafte for to give me relief; By quadratic equations, and fair operations, From hence * fhow the caule of my grief.

*Given $\begin{cases} \frac{x^{12}+y^{12}+z^{12}+w^{12}\left[\frac{1}{3}\times x^{12}+y^{12}+z^{12}\right]_{6}^{1}=50094,3470718} \\ \frac{x^{12}+y^{12}+z^{12}$

(2) QUEST. 442. by Mr. JOSEPH JAMES, of Stoke-Bifbop.

IT is required to find a fquare number; fuch, that being multiplied by 4, and that product leffened by 16. the remainder shall be a square number ?

(3) QUEST. 443. by Mr. PATRICK HALL, of Denby, Derbyshire.

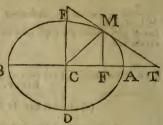
A gentleman having a garden in the form of a quadrant of an ellipfe, whole femi-transverse = 15, and femi-conjugate axe = 10 yards; which he is defirous to have givided into two trilineal spaces, by a walk drawn from the right angle of the faid garden, and terminating in the curve; fo that the fpace lying next the greater femi-axe, may be to the other, in the ratio as 3 to 4. Query, the greatest rectangular fifh-pond that can be infcribed in the fpace bounded by the walk, the femi-transverse, and the curvilineal part of the ellipse.

(4.) QUEST.

46 New QUESTIONS to be answered in next Year's DIARY

(4.) QUEST. 444. by Mr. JOHN WILLES, mafter of the FREE-SCHOOL, at *Marfk* in *Clevelard*, by whom *youtb* are taught the ENG-LISH LANGUAGE, and the various branches of the MATHE-MATICS.

To determine the length of the tangent (TM) drawn to touch an ellipfis (whofe diameters are 40 and 30 refpectively) in the point (M) fuch; that if the femi-ordinate (PM) and a right line (MC) from **B** the point of contact to the center of the ellipfis be drawn; the difference of the areas of the two triangles (CPM) and (PMT) formed thereby, may be a minimum.



(5.) QUEST. 445. By Mr. ALEX. ROWE, of Reginnis, near Penzance.

On the 21ft of *June*, 1777, at a certain place, the fun being due eaft; it was observed, that the fine of the fun's differe from fix o'clock, was to that of his altitude, as 2 to 3. required the latitude of the place.

(6.) QUIST. 446. By Mr. ISAAC ROWBOTTOM, of West Hallam, Derbyshire.

IF the fub-tangent of a curve be expressed by $\frac{\overline{bx-x}^3}{\overline{b-x^1} \times \sqrt{a^2+x^2}+ab}^3$

 $\times \frac{8y^2y}{x^2}$; Quere the femi-ordinate y; when a=4, n=3, and b=1000

yards respectively.

(7.) QUEST. 447. By Mr. JOHN WILLES, of Mark.

An ereft declining dial declines from the fouth 30 degrees ; and the plane's difference of longitude exceeds the fubflyles diffance from the meridian, juft equal to the co-latitude of the place. To determine in what latitude this dial is fixed.

(8.) QUEST. 448. By Mr. THOMAS WALKER.

LET there be a right angled triangle, and a femiparabola joined together at the leaft angle of the triangle, and vertex of the parabola, fo,

that

Nº. 39. GENT. DIARY; or, Math. Repolitory, 1779. 47

that the bafe and abfeifs may make one right line; the legs of the triangle being 80 and 60; and abfeifs and greateft femiordinate of the parabola 80 and 50. Required the dimensions of the greateft parabola that can be inferibed in the space contained by the fegment of the hypothenule, tangent, and curve; when the tangent is drawn so as to divide the area of the triangle in the ratio of 3; 2.

(9.) QUEST. 449. By Mr. WILLIAM WINN, of Thirk, Yorkshire.

On a certain day in 1777, at 6 o'clock in the morning, as I was fitting in a room, the Sun fining in at the window. I obferved the rays to fall on the cieling of the room from a reflecting body on the floor (which was an horizontal plane,) I obferved the fame, when the Sun was due eaft, and meafured the diffance of two rays upon the cieling, and found it 12,846064 feet. Moreover, I found the *fum* of both the reflected rays from the cieling to the body, to be to their *differences*, as 12,846064 to 2,646224. Required the latitude; the time of the year; and the height of the room.

(10.) QUEST. 450. By Mr. RALPH THOMPSON, of Witherley Bridge.

WHAT are the dimensions of the area, of the greatest femicubical parabola that can be inscribed in an annulus, with its vertex in the inner circle; the fum of whose circumferences is 125,664; and difference of their diameters = 20. And also, the length of a chord of the outer circle perpendicular to its diameter, that will cut off one half of the faid parabola.

(11.) QUEST. 451. By Mr. WILLIAM SHERWIN, of Afon, upon Trent.

A noted furveyor of land, in meafuring a nobleman's park, found a fifth-pond; upon the brink of which grew a fately oak, whole neareft diffance from the park wall was 1,5 chains; and he obferved, that the angle (at any point of the brink of the pond.) fublended by that perpendicular height of the wall which was in a right line with that point and the oak tree was $1^{\circ} 1' 4_{3}''$; and the height of the wall was 4 yards. From whence he defires fome ingovious diarias, will in the next year's DIARY, tell him the exact area of the pond.

(12.) QUEST. 452. By Mr. THOMAS WALKER.

GIVEN the time of evacuation of a paraboloid thro' a circular hole in the vertex of I_{2}^{\perp} inch diameter $I_{9}^{\prime} \cdot 2_{3}^{\prime \prime} \cdot 12^{\prime \prime \prime} \frac{1}{2}$ the neareft diffeace from the middle of the base to the curve furface 45,161175 inches; required the diameter and folid content?

(13.) QUEST.

18 New QUESTIONS to be answered in next Year's DIARY.

(12.) QUEST. 453. being the PRIZE QUEST. by Mr. ISAAC Row-EOTTOM.

A gentleman has a garden in the form of the trapezium ABCV, in which are two canals a triangular one ABO, and another AVC, bounded by a ftraight walk AC, and two equal curved ones AV, VC, uching each other in their vertices V, whole equation is $px = y^3$.

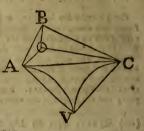
Now, on a certain day in the fpring, 1777, I being employed in furveying his eftate, observed that at

 $55\frac{7}{16}$ min. paft 6 o'clock in the morning the shadow of a staff 6 feet long erected at C, fell upon the walk

KC, and its length was 15,87872 feet; but 1 17 hours after, it fell

upon the walk CO, and its length

101 3



was then but 7,52444 feet: allo at $1\frac{137}{450}$ hours paft noon on the fame

day, the fhadow of a tree flanding perpendicular to the horizon at A. fell upon AB; moreover, I found that if a right line was drawn from C, and another from A, to the fummit of a fir ftanding perpendicular to the horizon at O, the angles formed by these lines and the horizon would be 5° 14' 47" and 17° 32' 10". These are all the dimenfions that can peffibly be procured, only (from an old plan of this garden,) we found, that when the walks AV, VC were made, they took the least quantity of materials possible; and the gentleman himfelf, remembering that the angle ABC was right; and that the canal AVC, exceeded ABC, by 2 a. Ir. 36,31 p. It is requested, that fome of your ingenious correspondents, will give the dimensions of each feparate part of this garden, fo that the true area thereof may be known.

INI Se

The AV a she where has been a set as the set