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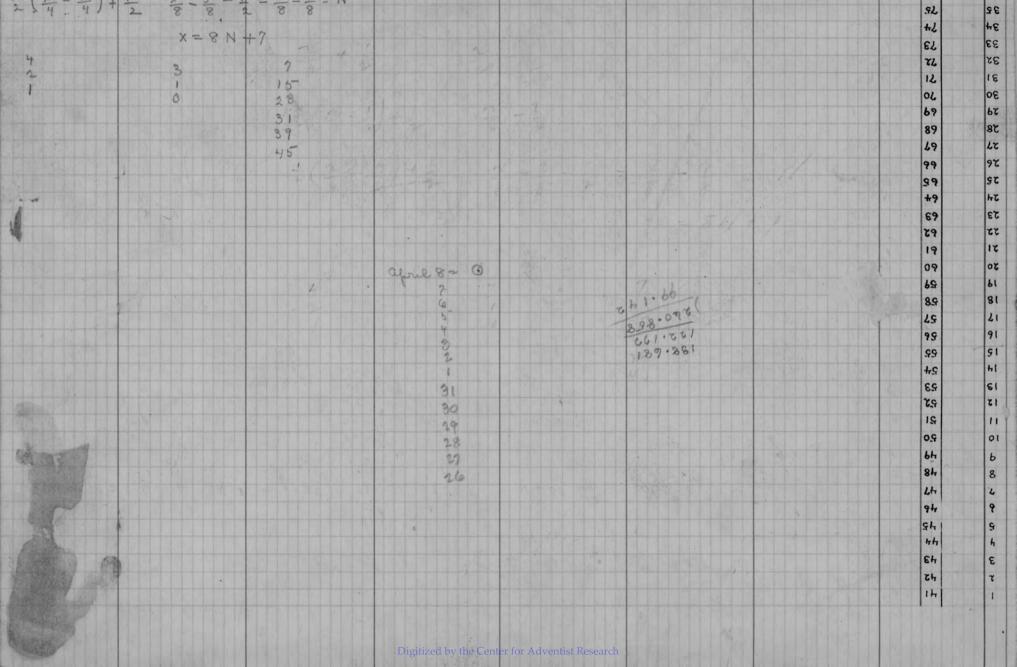
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As Jesus still sat at the well-side, He looked upon the fields of grain that

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Adays + date = date of Perige 31 × 13.25 = no. of periods X 27:55457. 8 4973 gitized by the Center for Adventist Research

fn=fo+na'+ n(n+1) a" 6:30 2h 21 solve the equation for (t) cos ta = ros (90° 50' - Ta) sec 8 sec 9 - tan 8 tan 9 add de + te = Sidereal time of moonset. find the Local civil time when the boal sidereal time equals & + to by the following procedure. Find from newcombs tables the sid. Time for the corresponding G.C.T. then add the 2h 20.9 for the local Jerusalen sid. Time call this J.

Then J - de - te = \(\lambda \rightarrow \text{the pidereal time interval to the brue boal time to the true boal time of phenomena. Of Repeat all the above for, the sunset and the logal civil fines of sunset and moonset gipes the interval between them. a little by using the approximate formula for to or to as follows: where q is + 0.3 for the moon and - 3.5 for the sunset. Digitized by the Central Gallette Search of Drapers

Computed by Glam Draper, Usscriete astronomer U.S. Veral moonset occurs when the sidercal time equals He + a where wor He = - tan of tan S + sim (TI - sd-34) perfore S. For Junsalem 9 = + 31° 46 ; log tom 9 = 9.79185 ; log sec 4 = 0.0705 $\lambda = -2^{2}20.9$ st. row. = -23°.15 . S.T. for Jerusdlem Mean Noon from page 20 ! NA for year 1844. Oct 12 = 13h 24m 37.583 = 23.15 = 13h 24.24 det 13 = 13 28 34.38 - 23.15 = 13 28.19 From page 211 we have as a first approx from phase.) for moonse 5: 20,9 P.M. Jev. Time or 3 P.M. G.C.T. which gives $\alpha_{e} = 13^{\ell} 40.59$ $\delta = -13^{\circ} 48.2$ log tan 8 = 9.39038n : log 200 Na = 9.18243 Ne = 5h 24.98 $S.T. = \begin{cases} 13^{4} & 24.24 \\ 5 & 20.90 \\ 0.88 \\ \hline 18 & 46.02 \end{cases}$ ×a = 13 E = 19h E-ST = + 0h 19.55 Second approximation: - 5th 40.9 P.M. JT. = 3th 20 P.M. GC.T. $\alpha_{e} = 13^{5} + 1.40 \qquad log ton \delta = \frac{9.79185}{9.39234}$ $\delta = -13^{6} + 51.8 \qquad log om (\pi-4-34) = 7.4637$ $\delta = 40.90$ $\delta = 5^{6} + 24.02$ $\delta = 0.0128$ $\delta = 0.00128$ $\delta = 0.00$ E-ST. = + 01315d by De Center Madrentist Break Jen Oct, 2, 1844 at 5:41 P.M.

Monret Terusalem October 13 de 13. Oct. 12 = 13 17" = Equation of time Oct. 13 = 13'32" = equation of time.

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100.16, 1925 - 15h 40 27 # Oct. 12 - 10 - 1844 - 13 57 41 Nov. 16 ではなると、一ついまな中ではでもしないましているいましていると Digitized by the Center for Adventist Research

· 9 6859 March 25 [6:15] 21 Fm 67 76 1 2 t 30 A1B, at Equator Sum is moremy so showly - but If you do not have incoursely lake biod now it moved incoursely is biod pin, Grosussell relief is Some I to at deressablen, of mount in grown w J.C.T. for subtrack Land got G.C.T. for policiscoursesce = Time for buson m(n-1) Moon Summent date Digitized by the Center for Advent

1844 apr 18 apr 19 20 + 31° 46' + 51° 28' + 31° 46' + 51° 28' - 26 20,9 0 0 - 26 20,9 0 0 6 44.9 7 40. 7 509 8 54 4 24.0 5 30.0 Local Time GMT + 17 29,3 +17 53.6 + 20 10.6 +20 28,3 Sa d 53 53 53 53 8 12 9 .13 D + 457 +954 + 527 +1119 table A -1 46.8 -1 46.8 -1 50.7 - 7 - 1.3 - 9 Sid T. -1 50.7 table III -1 23 -0 127 -0 589 -4 -6 -5 8 247 8 313 9 158 E dD de+6R 9 22.8 7 22.0 8 18.0 8 16.4 9 21.8 moonset G.M.T. 5 00 8 18.0 5 54.0 9 20.0 8 4 17 33.7 +17 57.8 +20 123 +20 304 table A + 453 +1 362 + 528 +1 521 -1 46.8 - 1 46.8 - 1 50.7 - 1 50.7 -8 - 1.4 - 1.0 - 1.5 Sid T. table III 58.9 Moonset. 7 23.2 8 19.9 8 17.2 9 22.9 Moonset defined as the instant moons ripper limb is on the Msp are Distinct the Center for Adventist Research

Oct Oct 1844 451° 28' + 31° 46' + 31° 46 +51° 28' -zh 20,9 - 2h 20.9 Local Time 409 30,9 5 0 0 10,0 G.M.T. 20.0 0 Se 13 55.4 9.7 17 50.0 d 100 101 101 10,0 D ,08 .1.2 08 .13 Table A 740 354 461 99,7 13 24.61 Sid Time - 13 286 -13 24.6 13 286 Table III 0.5 14 39.4 - 14 154 15 9.2 5 . 8 -1.2 1.3 da + 6h 19 41.4 19 45.5 43.1 20 47.8 20 269 Moonset 5 401 5 49 37,3 4.8 4 5 40.0 G.M.T. 19.2 Sa -14 106 51.6 495 - 13 -17 22 46.1 table A 966 35.3 74,1 13 246 - 13 286 286 Sid Time 24.6 table PIL 154 5 14 0.5 -14 39.5 6.1 dD -.8 13 da +6h 19 41.4 19 456 429 20 469 20 5 4.9 6 26.7 5 40.1 Moonset 5 39.5 PM Local Mean Time Digitized by the Center for Adventist Research

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draw line of apaides (thru longs).

that is thru point of periger

to apoger.

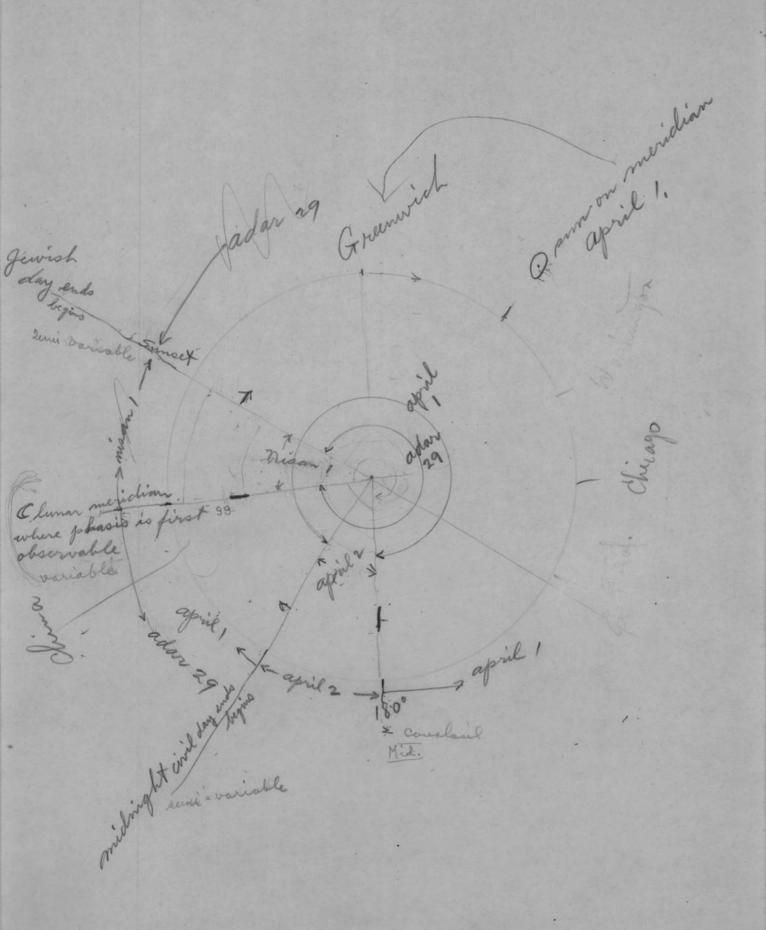
place earth on line of apsides

Place sun

draw line three centers

Prapers drawing to illustrate perige and apogee

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Finding the Moon's Age The following pencilled note ine a second hand books on Astronomy may be of interest: "Divide given year by 19; multiply remainder by 11; Reject multiples of 38; To this remainder add one-third plus one-quarter of the century (Excluding fractions); add the constant 8; Odd day of mouth; add mimber of month (commercing with March 1, Lanuary and February being put with previous year); From the sum deduct the century, and the remainder will be the Moon's age (reject multiples of 30) within an error No clue is given as to the source of this rule, but I can teatify to its accuracy. I have cheefed it against a delection of past relipaes tolen from Ferguson's astronomy, and by taking those which happened in the middle of the day the age comes correct every time for as many senlithies foast as I have tried it, allowing for Old Slyle. The following wample it for 1941. June 11: 1941 leaves remainder of 3. Wultiply by 11, giving 33. Subbiael 30. Lo remainder 3 add 10 (1 plus 4 9 19), 8, 11 and 4, totalling 36, Subbrack 19, giving 19 days for age of moon on this day. For any current year, the rule amounts to deriving a constant for that year adding the day and number of the month when the information is required, and subtracting multiples of 30. This constant is easily memorized and the operation can there be performed mentally as required. (Constant for 1941 = 2. addigitized whe Center for Advantist Researche 11. age 17 day 3.

I should be very untirested to know the derivation of the various processes set out above, for which I cannot at present see any masour. Perhaps some one will know the source of the rule.

Having obtained the age of the Moon from the above, its time of Bouthing on that day for any longitude is rasily found by mulleplying its age by four-fyths and subtracting a constant (12 for greenwich). The remainder is the approximate time in bours. (Example for 1941 Lune 11. age 19 days. 45ths = 13.6, Subtract 12 = 61.6, i.E. 01 36m. N.H. gives 01 29 m.) - P. Harvey,

2 propo = 40.83 40 51 1 13.31 40 13.31 40 13.31

It has again been proposed to locale 14 Misure one 30 a. D. on the Lewish day of full moore, Friday, april ?, and the calcular for a 14- Misure passover 3 covering the crucificion period - 29 to 30 a.D. - have been presented in table forme. ?? In deaprace 14 (Page 30)?

Formel

Formaly the death passal view hunted in a whole decade; but two years to problems down astronomy has narrowed the problems. The problems down

⁷² Olustad, a.T., "She Chronolog

It has been proposed to locate 14 misone in 30 a. D. are the Jewish day of full mooner, Friday, april 7, and in 31 a. D., 22 hours by the present of april 27.

Mountain to present dates for a hyposthetical crucificiant parison of form 29 to 36 a. D. and presented in those forms of this of deagram H (p. 30) analyzes and compare with the time promoter one grafole based as the formover - full moon relation.

Demonstration 6 (Tragram H, p. 30):

Levelend 100-year clusers Employed of J. Enclose Conference . 1949. Complete . 195° Southerness, 1924.

72 Olmstead Q.T., "The Chronology of Jean' Sife," p. 4. anglicans theological Review, January pe Certif for Adventis Research XXIV.



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