

Ms 5104/7-8.

Eötvös Loránd jegyzetei
Földrajz, alakt.

Előzetes. bor.

M. TUD. AKADÉMIA
KÉZIRATI ÉS NYOMDAI TÁRSASÁG
1927. ÉV. 17. SZ.

No 5104/7

Földrajz —
Risérlet

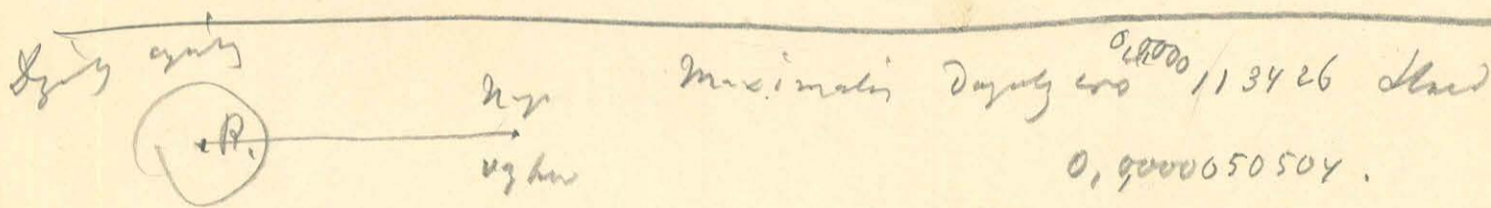
MADYAR
TUDOMÁNYI AKADEMIÁ
KÖNYVTÁRA

Gyűjt 1836 ban a Páulkernekben 57 méteres ingó
 függőleges fel mély alul a függőleges felül 4 1/2 m. m el
 tér. bizonyos dőre? 16'

Gyűjt Le pendule n'est pas perpendiculaire à
 la surface des liquides tranquilles. C. R. XXVII
 Fortschritte der Physik. VI Jahrg.

Körvonal a föld körpályájánál $a = R \omega^2$
~~dekoráció~~ = 0,58949 höz 0,59
 $R =$

Stabilitás a föld körpályájánál = 0,0034181 höz 0,0034



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	$\frac{1}{g} \frac{m}{g^2}$	$\frac{a}{D}$	
Kör	0,58604	$\frac{1}{23599}$	= 0,000042747
Stab	0,0034181	$\frac{1}{60,26951}$	= 0,0165921

a 24 ik utalás az D helyen van §

β wunde den die Zahl wie beides

$$\int y \, dm \, g \, \alpha \quad \alpha = \varepsilon - \beta$$

$$\int y \, dm \, g \, \beta$$

$$m_k l_k g (1+k) \sin \alpha_k - m_k l_k g (1+k) r_k$$

$$\underline{m_k l_k g \sin \alpha_k + m_k l_k g k \sin \alpha_k - m_k l_k g \cdot r_k}$$

$$M l g \sin E (1+k) = \sum m_k l_k g (1+k) r_k$$

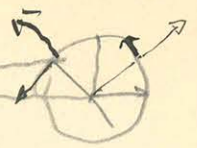
$$\cancel{m l g \sin E}$$

$$m l g \sin E + \underline{\sum m_k l_k g (k \sin \alpha_k - r_k)}$$

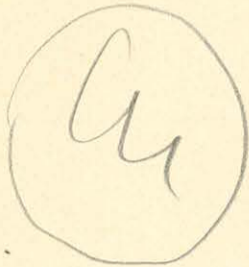
g -

/o

$$f M \left(\frac{a}{\rho}\right)^3 (2 \cos^2 \delta - \sin^2 \delta) + C \cos \delta + f \frac{M}{g^2} \cos \delta$$



$$f_3 M \left(\frac{a}{\rho}\right)^3 \sin \delta \cos \delta + C \sin \delta + f \frac{M}{g^2} \sin \delta$$



$$C = f_0 \frac{M}{g^2}$$

$$f \frac{M}{g^2} - C = f_0 \frac{M}{g^2} - C + (f - f_0) \frac{M}{g^2}$$

$$f M \left(\frac{a}{\rho}\right)^3 (2 \cos^2 \delta - \sin^2 \delta) + (f - f_0) \frac{M}{g^2} \cos \delta \text{ feljött}$$

$$3 f M \left(\frac{a}{\rho}\right)^3 \sin \delta \cos \delta + (f - f_0) \frac{M}{g^2} \sin \delta$$

$$f_0 M \left(\frac{a}{\rho}\right)^3 (2 \cos^2 \delta - \sin^2 \delta) + (f - f_0) M \left(\frac{a}{\rho}\right)^3 (2 \cos^2 \delta - \sin^2 \delta) + (f - f_0) \frac{M}{g^2} \cos \delta.$$

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$$f_0 \frac{f - f_0}{f_0} \frac{\rho}{2 \frac{a^2}{\rho} \frac{M}{g^2}} =$$

$$\frac{M}{g^2} k \cdot 1000 = \frac{1}{30000} \left(f - f_0 \right) \frac{M}{g^2} \sin \delta.$$

m_a l_a

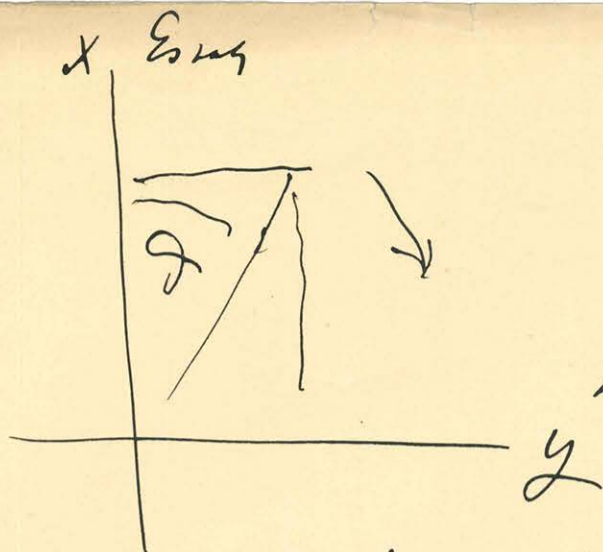
$$\begin{aligned} & (f + k) \frac{M}{g^2} \cos \delta \\ & (f - k) \frac{M}{g^2} \cos \delta \end{aligned}$$

$$k \left(f_0 \frac{M}{g^2} \right) \cos \delta \text{ ml}$$

$$\frac{1}{r^2} - \frac{3 \rho^2}{r^5}$$

$$\frac{1}{r^2} - \frac{3 \sin^2 \delta}{r^5}$$

$$\left(\frac{f M}{g^2} \cos \delta - C \cos \delta \right) m_a l_a - \left(f \frac{M}{g^2} \cos \delta - C \cos \delta \right) m_b l_b \cos \delta.$$



Kedlet

2 lapos

1 geometriai feladat

$$r = \frac{2\pi}{86164} = 0,000072$$

$$m \frac{\partial^2 x}{\partial t^2} = X - 2mn \sin \alpha \frac{\partial y}{\partial t}$$

$$m \frac{\partial^2 y}{\partial t^2} = Y + 2mn \left(\sin \alpha \frac{\partial x}{\partial t} + \cos \alpha \frac{\partial z}{\partial t} \right)$$

$$m \frac{\partial^2 z}{\partial t^2} = Z - 2mn \cos \alpha \frac{\partial y}{\partial t}$$

$$x = r \sin \alpha \quad y = r \cos \alpha$$

$$\frac{\partial x}{\partial t} = -r \sin \alpha \frac{d\alpha}{dt} \quad \frac{\partial y}{\partial t} = r \cos \alpha \frac{d\alpha}{dt}$$

$$\frac{\partial^2 x}{\partial t^2} = -r \cos \alpha \left(\frac{d\alpha}{dt} \right)^2 - r \sin \alpha \frac{d^2 \alpha}{dt^2} \quad - \sin \alpha$$

$$\frac{\partial^2 y}{\partial t^2} = -r \sin \alpha \left(\frac{d\alpha}{dt} \right)^2 + r \cos \alpha \frac{d^2 \alpha}{dt^2} \quad + \cos \alpha$$

$$m r \frac{d^2 \alpha}{dt^2} = Y \cos \alpha - X \sin \alpha + 2mn \cos \alpha \cos \alpha \frac{d\alpha}{dt}$$

$$+ 2mn \sin \alpha \sin \alpha \frac{d\alpha}{dt}$$

$$- 2mn \sin \alpha \cos \alpha \frac{d\alpha}{dt}$$

$$m \frac{d^2 \alpha}{dt^2} = Z - 2mn r \cos \alpha \cos \alpha \frac{d\alpha}{dt}$$

$$e^{-\frac{\pi t}{\tau}} \frac{i}{\tau (D + \frac{\pi i}{\tau})^2 + \varepsilon (D + \frac{\pi i}{\tau}) + Mgs}$$

$$\frac{1}{-\tau \frac{\pi^2}{\tau^2} + \frac{\varepsilon \pi i}{\tau} + Mgs} (\cos \frac{\pi t}{\tau} + i \sin \frac{\pi t}{\tau}) t$$

$$\frac{(Mgs - \tau \frac{\pi^2}{\tau^2}) - \varepsilon \frac{\pi i}{\tau}}{(Mgs - \tau \frac{\pi^2}{\tau^2})^2 + \frac{\varepsilon^2 \pi^2}{\tau^2}} (\cos \frac{\pi t}{\tau} + i \sin \frac{\pi t}{\tau})$$

$$\frac{(Mgs - \tau \frac{\pi^2}{\tau^2}) \cos \frac{\pi t}{\tau} + \varepsilon \frac{\pi}{\tau} \sin \frac{\pi t}{\tau}}{(Mgs - \tau \frac{\pi^2}{\tau^2})^2 + \frac{\varepsilon^2 \pi^2}{\tau^2}} t$$

$$\begin{aligned} & -2\tau (Mgs - \tau \frac{\pi^2}{\tau^2}) \frac{\pi}{\tau} \sin \frac{\pi t}{\tau} - 2\tau \varepsilon \frac{\pi^2}{\tau^2} \cos \frac{\pi t}{\tau} - \tau (Mgs - \tau \frac{\pi^2}{\tau^2}) \frac{\pi^2}{\tau^2} \cos \frac{\pi t}{\tau} + \cancel{t \tau \varepsilon \frac{\pi^3}{\tau^3} \sin \frac{\pi t}{\tau}} \\ & + \varepsilon (Mgs - \tau \frac{\pi^2}{\tau^2}) \cos \frac{\pi t}{\tau} + \varepsilon^2 \frac{\pi}{\tau} \sin \frac{\pi t}{\tau} - \varepsilon t (Mgs - \tau \frac{\pi^2}{\tau^2}) \frac{\pi}{\tau} \sin \frac{\pi t}{\tau} + \cancel{2\tau \frac{\pi^2}{\tau^2} \cos \frac{\pi t}{\tau}} \\ & + Mgs (Mgs - \tau \frac{\pi^2}{\tau^2}) \cos \frac{\pi t}{\tau} \cdot t + \varepsilon t \frac{\pi}{\tau} \sin \frac{\pi t}{\tau} = [(Mgs - \tau \frac{\pi^2}{\tau^2})^2 + \frac{\varepsilon^2 \pi^2}{\tau^2}] \frac{\pi t}{\tau} \end{aligned}$$

$$\begin{aligned} & \cdot \varepsilon - \tau (Mgs - \tau \frac{\pi^2}{\tau^2}) \cos \frac{\pi t}{\tau} \cdot \frac{\pi^2}{\tau^2} \ominus - \tau \varepsilon \frac{\pi^3}{\tau^3} \sin \frac{\pi t}{\tau} + \varepsilon (Mgs - \tau \frac{\pi^2}{\tau^2}) \frac{\pi}{\tau} \sin \frac{\pi t}{\tau} + \varepsilon^2 \frac{\pi^2}{\tau^2} \cos \frac{\pi t}{\tau} \\ & + Mgs (Mgs - \tau \frac{\pi^2}{\tau^2}) \cos \frac{\pi t}{\tau} + \varepsilon \frac{\pi}{\tau} \sin \frac{\pi t}{\tau} + \frac{1}{\tau} \cos \frac{\pi t}{\tau} \end{aligned}$$

$$-\tau \frac{\pi^2}{\tau^2} (Mgs - \tau \frac{\pi^2}{\tau^2}) + \varepsilon^2 \frac{\pi^2}{\tau^2} \cos \frac{\pi t}{\tau} + Mgs (Mgs - \tau \frac{\pi^2}{\tau^2})$$

$$\left[(Mgs - \tau \frac{\pi^2}{\tau^2}) (Mgs - \tau \frac{\pi^2}{\tau^2}) + \varepsilon^2 \frac{\pi^2}{\tau^2} \right] \cos \frac{\pi t}{\tau} -$$

$$y = e^{-\alpha t} (A \cos \frac{\pi t}{\tau} + B \sin \frac{\pi t}{\tau}) - \frac{a \tau (Mgs - \tau \frac{\pi^2}{\tau^2})}{\tau (Mgs - \tau \frac{\pi^2}{\tau^2})^2 + \frac{\varepsilon^2 \pi^2}{\tau^2}} \cos \frac{\pi t}{\tau} + \frac{\frac{a \tau}{\tau} \varepsilon \frac{\pi}{\tau}}{(Mgs - \tau \frac{\pi^2}{\tau^2})^2 + \frac{\varepsilon^2 \pi^2}{\tau^2}} \sin \frac{\pi t}{\tau}$$

$$y = e^{-\alpha t} (A \cos \frac{\pi t}{\tau} + B \sin \frac{\pi t}{\tau}) - \frac{a}{2} \sin \frac{\pi t}{\tau}$$

$$y = A e^{-\alpha t} \sin \frac{\pi t}{\tau} - \frac{a}{2k\alpha} \sin \frac{\pi t}{\tau}$$

$$y = A e^{-\alpha t} \sin \frac{\pi t}{\tau} + \frac{a \tau}{2k \log D} \sin \frac{\pi t}{\tau}$$

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$$m \frac{dx}{dt} = -mc \frac{dy}{dt} \quad C = 2\pi \sin \alpha$$

$$m \frac{dy}{dt} = +mc \frac{dx}{dt}$$

$$\frac{d^2x}{dt^2} = -2\pi \sin \alpha \frac{dy}{dt}$$

$$\frac{d^2y}{dt^2} = +2\pi \left(\sin \alpha \frac{dx}{dt} - \cos \alpha \frac{dr}{dt} \right)$$

$$\frac{d^2z}{dt^2} = -g + 2\pi \cos \alpha \frac{dy}{dt}$$

$$\frac{d^2x'}{dt^2} = -2\pi \sin \alpha \cos \gamma \frac{dy}{dt} - 2\pi \sin \gamma \left(\sin \alpha \frac{dx}{dt} - \cos \alpha \frac{dr}{dt} \right)$$

$$\frac{d^2y'}{dt^2} = -2\pi \sin \alpha \sin \gamma \frac{dy}{dt} + 2\pi \cos \gamma \left(\sin \alpha \frac{dx}{dt} - \cos \alpha \frac{dr}{dt} \right)$$

$$\frac{dy}{dt} = \frac{dy'}{dt} \cos \gamma - \frac{dx'}{dt} \sin \gamma$$

$$\frac{dx}{dt} = \frac{dy'}{dt} \sin \gamma + \frac{dx'}{dt} \cos \gamma$$

$$\frac{d^2x'}{dt^2} = -2\pi \sin \alpha \cos \gamma \left(\cos \gamma \frac{dy'}{dt} - \sin \gamma \frac{dx'}{dt} \right) - 2\pi \sin \alpha \sin \gamma \left(\sin \gamma \frac{dy'}{dt} + \cos \gamma \frac{dx'}{dt} \right) + 2\pi \sin \gamma \cos \alpha \frac{dr'}{dt}$$

$$\frac{d^2x'}{dt^2} = -2\pi \sin \alpha \frac{dy'}{dt} + 2\pi \sin \gamma \cos \alpha \frac{dr'}{dt}$$

$$\frac{d^2y'}{dt^2} = -2\pi \sin \alpha \sin \gamma \left(\cos \gamma \frac{dy'}{dt} - \sin \gamma \frac{dx'}{dt} \right) + 2\pi \sin \alpha \cos \gamma \left(\sin \gamma \frac{dy'}{dt} + \cos \gamma \frac{dx'}{dt} \right) - 2\pi \cos \gamma \cos \alpha \frac{dr'}{dt}$$

$$\frac{d^2y'}{dt^2} = +2\pi \sin \alpha \frac{dx'}{dt} - 2\pi \cos \gamma \cos \alpha \frac{dr'}{dt}$$

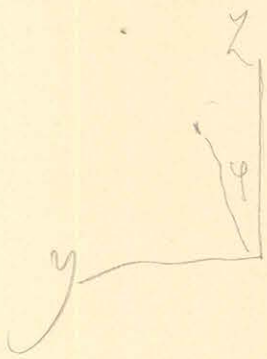
$$\frac{d^2z'}{dt^2} = -g + 2\pi \cos \gamma \left(\cos \gamma \frac{dy'}{dt} - \frac{dx'}{dt} \sin \gamma \right)$$

$$2m \frac{dy}{dt} = -v m n \cos \alpha$$

$$2m n \cos \alpha = c$$

$$m \frac{dy}{dt} = -c \frac{dr}{dt}$$

$$m \frac{dz}{dt} = -mg + c \frac{dy}{dt}$$



~~mg~~

$$z = r \cos \alpha$$

$$y = r \sin \alpha$$

$$\frac{dz}{dt} = -r \sin \alpha \frac{d\alpha}{dt}$$

$$\frac{dy}{dt} = +r \cos \alpha \frac{d\alpha}{dt}$$

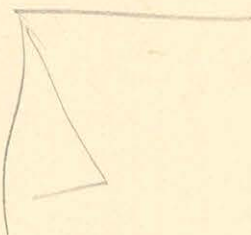
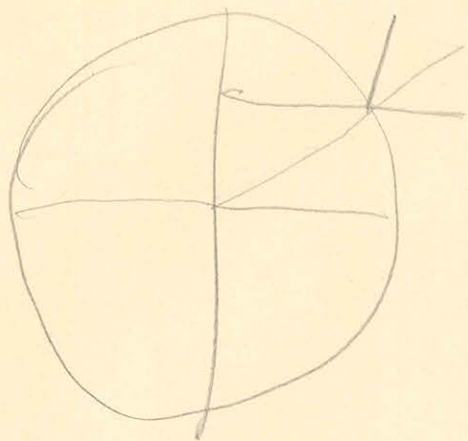
$$\frac{dz}{dt} = -r \cos \alpha \left(\frac{d\alpha}{dt}\right)^2 - r \sin \alpha \frac{d^2\alpha}{dt^2}$$

$$\frac{dy}{dt} = -r \sin \alpha \left(\frac{d\alpha}{dt}\right)^2 + r \cos \alpha \frac{d^2\alpha}{dt^2}$$

$$\frac{dy}{dt} \cos \alpha - \frac{dz}{dt} \sin \alpha = r \frac{d^2\alpha}{dt^2}$$

$$m r \frac{d^2\alpha}{dt^2} = -c \cos \alpha \frac{dz}{dt} + mg \sin \alpha - c \sin \alpha \frac{dy}{dt}$$

$$m r^2 \frac{d^2\alpha}{dt^2} = mg r \sin \alpha + c m r^2 \cos \alpha \sin \alpha \frac{d\alpha}{dt} - c m r^2 \sin \alpha \cos \alpha \frac{d\alpha}{dt}$$



$$x_1 = r \cos \alpha$$

$$y_1 = r \sin \alpha$$

$$\frac{dx}{dt} = \frac{dr}{dt} \cos \alpha - r \sin \alpha \frac{d\alpha}{dt}$$

$$\frac{dy}{dt} = r \cos \alpha \frac{d\alpha}{dt} + \frac{dr}{dt} \sin \alpha$$

$$\frac{d^2x}{dt^2} = -r \cos \alpha \left(\frac{d\alpha}{dt}\right)^2 - r \sin \alpha \left(\frac{d^2\alpha}{dt^2}\right) - \frac{dr}{dt} \sin \alpha$$

$$\frac{d^2y}{dt^2} = -r \sin \alpha \left(\frac{d\alpha}{dt}\right)^2 + r \cos \alpha \left(\frac{d^2\alpha}{dt^2}\right) + \frac{dr}{dt} \cos \alpha$$

$$\frac{d^2x}{dt^2} \cos \alpha - \frac{d^2y}{dt^2} \sin \alpha = \frac{d^2\alpha}{dt^2} r$$

$$m \frac{d^2y}{dt^2} = -2mn \cos \alpha \frac{dr}{dt}$$

$$m \frac{d^2x}{dt^2} = -mg + 2mn \cos \alpha \frac{dy}{dt}$$

$$z = r \cos \alpha$$

$$y = r \sin \alpha$$

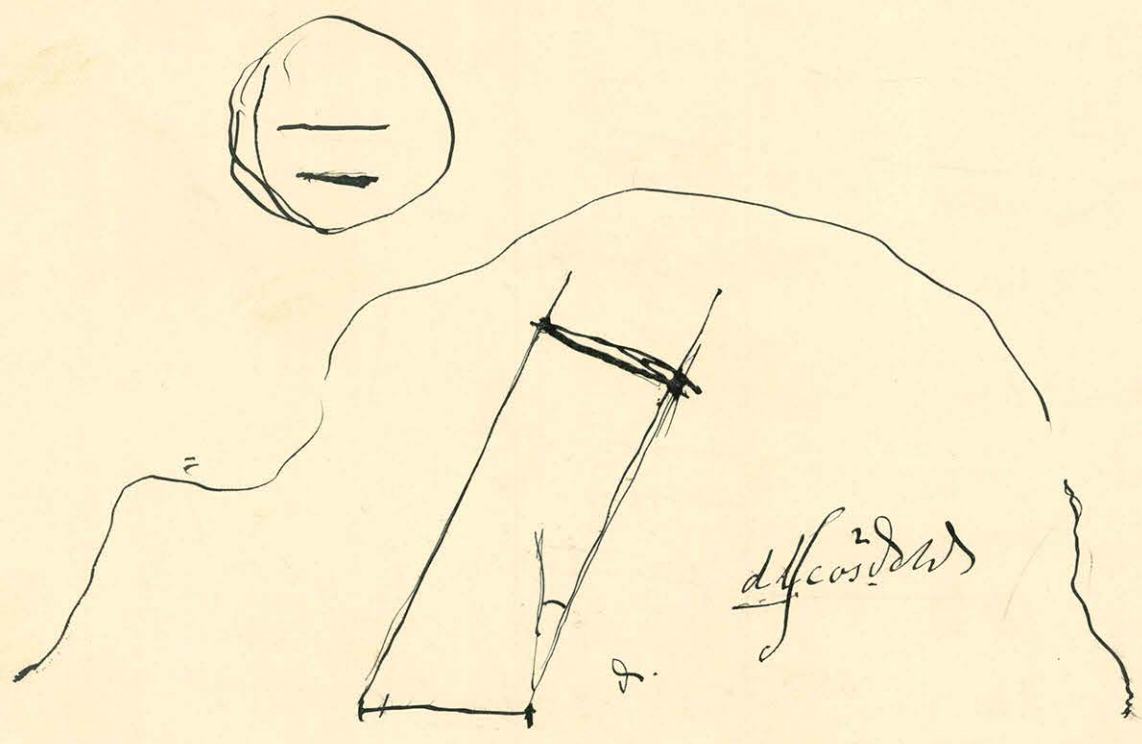
$$\frac{dz}{dt} = -r \sin \alpha \frac{d\alpha}{dt} - \frac{dr}{dt} \cos \alpha$$

$$\frac{dy}{dt} = r \cos \alpha \frac{d\alpha}{dt} + \frac{dr}{dt} \sin \alpha$$

$$\frac{d^2z}{dt^2} = -r \cos \alpha \frac{d^2\alpha}{dt^2} - \frac{dr}{dt} \sin \alpha - \frac{d^2r}{dt^2} \cos \alpha$$

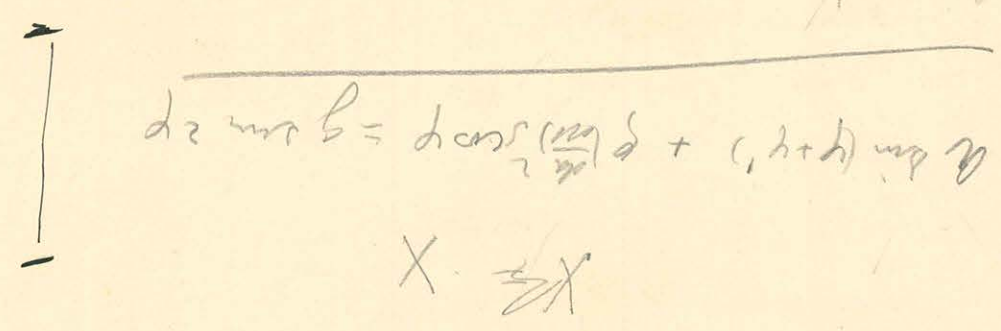
$$\frac{d^2y}{dt^2} = r \sin \alpha \frac{d^2\alpha}{dt^2} + \frac{d^2r}{dt^2} \sin \alpha + 2 \frac{dr}{dt} \cos \alpha \frac{d\alpha}{dt}$$

4 h. m	37 m	454,0
5 h.	5 m 30 s	337,0
"	23 m "	360,4
—	34 m <i>krümmung</i>	355,4
5	56 m	413,8

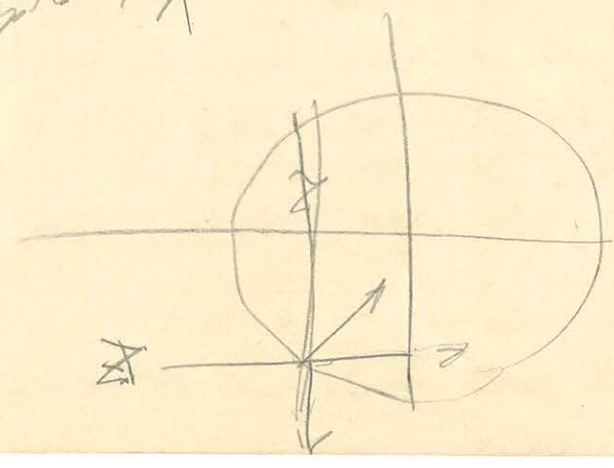


$$h \sin \alpha = g \sin \alpha - \frac{v^2}{2g}$$

$$h \cos \alpha = g \cos \alpha$$



~~$$X + \frac{v^2}{2g} = g \sin \alpha$$~~



8h 42. 105,2
 46 104,77
 57 99,6
 9h 07 99,0
 09 99,2 megindítás
 13 99,0
 34 88,0
 54 110,4

Tornófy 5°

654
 396 | 2760 6,8
 3300
 2700
 600

16h. 2m hirt 108 hirt
 15m 114 Tornófy 10°
 Jar

18,6 : 27,6 = 0,67
 1656
 2040

11h. 1m. 238,8 *
 " (9m 182,0)
 13m. 167,2)
 27 1/2 227,8)
 36 188,2)
 47 1/2 215,8)
 58m 197,2)
 71,6
 60,6)
 39,6 - 204,1
 27,6 204,7.
 18,6 205,2

világos { 12h. 1m hirt. Archa és megindítás első felhő 203 m. val.
 " { 12m 6m 208,8
 " 40m 172,5
 1h. 2m 190,6
 1h. 13m 189,0 nem fordít
 Csó { megmunkált legészke hirt.
 1h. 19m 108,2) 116,5
 33 1/2 m 224,7) 52,5
 1h. 48m 172,2)
 beszámoltam a világitás 2
 megmunkált igor legészke hirt.
 1h. 55m 203 134,7
 2h. 12m 301 235,6
 28m 30 205,2
 D, a 4h. 15m 228,0
 26m 228,2
 Tornófy 355°
 22 m hirt felül tornófy 6° al előre a vízben
 192 oldal
 33,6 oldal

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11. 3107/1

Földművelés
és erdőgazdálkodás
tudományai

3

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Laplace 2,55

Poisson 2,554

Huygen 2,62 - 2,68

Bevel 2,66

Danger 2,59

Desains 2,62 - 2,65

Dumke 2,861 - 2,941

~~34° - 12° - 12°~~

$34^{\circ} - 20^{\circ}$	$20^{\circ} - 12^{\circ}$	$12^{\circ} - 2^{\circ} 30'$
2,405	2,634	2,266
2,259	2,237	2,216
2,382	2,562	2,126
2,321	2,427 ⁺	2,205 ⁺
2,321	2,488	2,265
2,354	2,348	2,309
2,354	2,381	2,420
2,365	2,445	2,337
18,761	19,541	18,174
2,345	2,440	2,272

Amey

Kriop

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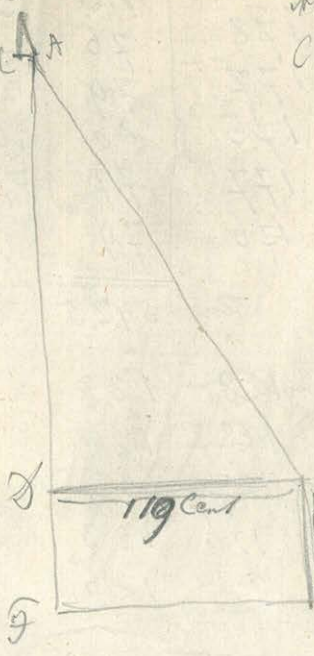
Jan. 8.

+ 0

C A

AC = 1 Cent.

CD = 4 Cent.



$$DC = \underline{119,2}$$

$$EG = 387$$

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$$CD = \underline{331,5}$$

49

$$\psi = 22^\circ$$

$$\varphi = 34^\circ$$

$$\underline{\underline{\sqrt{1 - \cos \varphi} = 0,4135}}$$

8/1 d.e. 11430
I für felület.

255	176
255,5	178
254	178
256	177
256	176
254	177
255	176

Diff.	φ	φ'
79	34°	$20^\circ 31'$
77,5	$a = 2,4051$	
76	<u>hírd</u>	
79	$a = 2,2087$	
80	<u>hírd</u>	
77	$a = 2,2528$	
79	<u>hírd</u>	
Körép	h. m.	
547,5	78,214	0,3910

$48^\circ 57'$
 $\varphi = 20^\circ 31'$
 $\sqrt{1-\cos\varphi} = 0,2518$

8/1 d.m. 3h.
ar előbbi felület

253	128
252	128
252,5	127
252	129
253	127,5

125		
124		
125,5		
123		
126,5		
0,2300		
$a = 2,2373$		
Körép	h. m.	
624	124,2	0,621

$65^\circ 52'$
 $\varphi = 12^\circ 4'$
 $\sqrt{1-\cos\varphi} = 0,1490$

254,5	76
255	70
254	76
253	76
254	75

178,5		
182		
178		
177		
179		
0,2735		
$a = 2,2659$		
Körép	h. m.	
894,5	177,66	0,8945
	178,9	

$85^\circ 19'$
 $\varphi = 2^\circ 20'$
 $\sqrt{1-\cos\varphi} = 0,0283$

8/1

$\varphi = 2^\circ 20'$
 $\sqrt{1-\cos\varphi} = 0,0283$

8/1 2h. 20p

252,5	126
252,5	127,5
249	127
253	125,5
253	127

Ömer	
$a = 2,3704$	
Körép	h. m.
	0,8945

$65^\circ 53'$
 $\varphi = 12^\circ 4'$
 $\sqrt{1-\cos\varphi} = 0,1490$

126,5		
125,0		
122		
127,5		
126		
0,2675		
$a = 2,2162$		
Körép	h. m.	
627,0	125,4	0,627

253,5	178
248	176
250,5	174
252	175
251	174

$49^\circ 25'$
 $\varphi = 20^\circ 4'$
 $\sqrt{1-\cos\varphi} = 0,2462$

75,5		
72		
76,5		
77		
77		
0,249		
$a = 2,5617$		
Körép	h. m.	
378	75,6	0,378

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NEMZETIS AKADÉMIA
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4h. d. a. $\frac{8}{I}$
 fűcsom mélyfűrész

$34^\circ \varphi$
 $a = 2,3819$

$49^\circ 25'$

$\varphi = 20^\circ 4'$

$\sqrt{1-\cos\varphi} = 0,2462$

		Diff	
257			
257	178	79	
257	177	80	
256	176	80	Örres
257	174	80	$a = 2,3052$
253	177,5	78,5	Körép m.m.
		397,5	79,7 0,3985

$65^\circ 25'$

$\varphi = 12^\circ 17'$

$\sqrt{1-\cos\varphi} = 0,1513$

257	127	130	
256	127	129	
253	127	126	0,24
253	127	126	2,6240
253,5	126	127,5	
		638,5	127,7 0,6385

$84^\circ 41'$

$\varphi = 2^\circ 39'$

$\sqrt{1-\cos\varphi} = 0,0332$

253	70,5	179,5	
250	70	177	
250	72	178	0,251
252	75	177	$a = 2,126$
252	74	178	
		889,5	177,9 0,8895

$\frac{8}{II}$

Örres
 $a = 2,3525$

$\varphi = 2^\circ 39'$

$\sqrt{1-\cos\varphi} = 0,0332$

Körép m.m.
 0,8895

251	110	141	
251	112	139	
250	110	140	0,1875
253	111	142	$a = 2,235$
251	110	140	
		702	140,4 0,702

$70^\circ 58'$

$\varphi = 9^\circ 31'$

$\sqrt{1-\cos\varphi} = 0,1171$

$49^\circ 14'$

$\varphi = 20^\circ 23'$

$\sqrt{1-\cos\varphi} = 0,2502$

250	174	76	$34^\circ \varphi$
249	174	75	$a = 2,321$
250	174,5	75,5	
250	173,5	76,5	0,323
250	174	76	$a = 2,427$
		379,0	75,8 0,3

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 KÖNYVTÁRA

5h.15p. $\frac{1}{2}$

$\varphi = 20^\circ 23'$

$\sqrt{1-\cos\varphi} = 0,2502$

63°30'

$\varphi = 13^\circ 15'$

$\sqrt{1-\cos\varphi} = 0,1634$

85°25'

~~$\varphi = 20^\circ 18'$~~
 $\varphi = 2^\circ 18'$

$\sqrt{1-\cos\varphi} = 0,0283$

251,5	132	119,5
253	131	122
251	132	119
252	135,5	116,5
253	135,5	117,5

594,5 118,9 0,5945

253,5	74	179,5
253	75	178
253	71	182
253,5	73	180,5
253	72,5	180,5

900,5 180,1 0,9005

Siff

$104^\circ \varphi$
 $a = 2,391$

Öfner
 $a = 2,3502$

Körp m.m.

0,379

5h.45p. $\frac{1}{2}$

~~$\varphi = 20^\circ 18'$~~

$\varphi = 2^\circ 18'$

$\sqrt{1-\cos\varphi} = 0,0283$

65°

$\varphi = 12^\circ 30'$

$\sqrt{1-\cos\varphi} = 0,1539$

252,5	120,5	123,0
252	133	119
254	120,5	123,5
253	130	123
253	131	122

610,5 122,1 0,6105

255	179	176
253	179,5	173,5
253,5	178	175,5
254	179	176
252	179	174

$\sqrt{1-\cos\varphi} = 0,2542$

Siff

Öfner
 $a = 2,3263$

Körp m.m.

0,9005

0,2900

$a = 2,309$

Körp m.m.

$104^\circ \varphi$
 $a = 2,354$

0,2355

$a = 2,348$

Körp m.m.

875,0 175 0,375

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

6h.10p. $\frac{8}{5}$

$\varphi = 20^\circ 42'$

$\sqrt{1-\sin\varphi} = 0,2542$

Diff

$24^\circ \varphi$
 $a =$

Öfner
 $a = 2,3975$

Körp m.m.

0,375

$65^\circ 4'$

256 133,5 122,5

256 132 124

254 134 120

0,2395

$\varphi = 12^\circ 28'$

256 131 125

$a = 2,381$

$\sqrt{1-\sin\varphi} = 0,1536$

257 134 123

Körp m.m.

614,5 122,9 0,6145

$84^\circ 21'$

256 74 182

256,5 76 180,5

256 76 180

0,2870

$\varphi = 2^\circ 50'$

257 76 181

$a = 2,420$

257,5 77 178

$\sqrt{1-\sin\varphi} = 0,0346$

Körp m.m.

901,5 180,3 0,9015

6h.25p. $\frac{8}{5}$

$\varphi = 2^\circ 50'$

$\sqrt{1-\sin\varphi} = 0,0346$

Diff

Öfner
 $a = 2,3885$

Körp m.m.

0,9015

$64^\circ 40'$

255,5 132 123,5

256 131,5 124,5

256 133 123

0,2835

$\varphi = 12^\circ 40'$

256 133 123

$a = 2,337$

$\sqrt{1-\sin\varphi} = 0,1559$

257 133 124

Körp m.m.

618,0 123,6 0,618

254 186 68

253 184 69

254 183 71

$24^\circ \varphi$
 $a = 2,265$

$46^\circ 44'$

255 185 70

0,268

$\varphi = 21^\circ 38'$

257 185 72

$a = 2,445$

$\sqrt{1-\sin\varphi} = 0,2655$

Körp m.m.

35,0 70 0,35

9/11 h. 45 p.
his felület

46° 45'

$\varphi = 21^\circ 37'$

$\sqrt{1-\cos\varphi} = 0,2653$

233	162	71
232	162	70
232,5	162	70,5
232,5	162	70,5
233	162,5	70,5

$\varphi = 24^\circ$

$a = 2,3785$

öfner

$a = 2,4287$

Közp m.m.

352,5 70,5 0,3525

232	109	123
232	109	123
232,5	108,5	124
233	109	124
233	109	124

64° 37'

$\varphi = 12^\circ 42'$

$\sqrt{1-\cos\varphi} = 0,1562$

0,2655

$a = 2,4335$

Közp m.m.

618 123,6 0,6180

230	49	
235	51	184
234,5	52,5	182
233,5	51	182,5
235	51,5	183,5
234	52	182
235	52,5	182,5
233,5	52	181,5
233,5	52	182,0

84° 19'

$\varphi = 2^\circ 50'$

$\sqrt{1-\cos\varphi} = 0,0346$

0,2948

$a = 2,4243$

Közp m.m.

182,5 182,5 0,9128

9/11 d. m. 3h. 20'
his felület

84° 19'

$\varphi = 2^\circ 50'$

$\sqrt{1-\cos\varphi} = 0,0346$

235	58	177
235	58	177
234	57,5	176,5
234	57,5	176,5
235	58,5	176,5

öfner

$a = 2,3499$

Közp m.m.

883,5 176,7 0,8835

234	113	121
231	113	
233	113	120
232,5	113	119,5
233	107	
226	106,5	119,5
225	107	118

65°

$\varphi = 12^\circ 30'$

$\sqrt{1-\cos\varphi} = 0,1539$

0,2855

$a = 2,3991$

Közp m.m.

598 119,6 0,5980

227	159	68
225,5	157	68,5
225	157	68
227	158	69
227	157	70

46° 54'

$\varphi = 21^\circ 33'$

$\sqrt{1-\cos\varphi} = 0,2644$

0,2545

$a = 2,3031$

Közp m.m.

343,5 68,7 0,3435

5h.

$$\varphi = 21^{\circ} 33'$$

$$\sqrt{1-\cos\varphi} = 0,2644$$

diff.

$$34^{\circ} - \varphi$$

$$a = 2,3038$$

Öfnes

$$a = 2,2818$$

Körép m.m.

$$68,7 \quad 0,3435$$

$$223 \quad 103 \quad 120$$

~~225 107~~

$$223 \quad 103 \quad 120$$

$$0,2525$$

$$222 \quad 102 \quad 120$$

$$a = 2,2851$$

$$221 \quad 103 \quad 118$$

$$221 \quad 103 \quad 118$$

Körép m.m.

$$596 \quad 119,2 \quad 0,5960$$

$$65^{\circ}$$

$$\varphi = 12^{\circ} 30'$$

$$\sqrt{1-\cos\varphi} = 0,1539$$

6h.

$$84^{\circ} 20'$$

$$\varphi = 2^{\circ} 50'$$

$$\sqrt{1-\cos\varphi} = 0,0346$$

~~221 44~~

~~219 45~~

~~225,5 46~~

~~221 50,5~~

~~221,5 48~~

~~221,5 48~~

~~221 47~~

~~222 54~~

~~222 48~~

~~221 47~~

~~173,5~~

~~173,5~~

~~174~~

~~174~~

~~174~~

~~174~~

~~869~~

~~173,8~~

~~0,8690~~

$$0,2730$$

~~0,228~~

$$a = 2,2883$$

Körép m.m.

$$173,8 \quad 0,8690$$

6h. 10 m.

Körép m.m.
fektálka

6h

$$84^{\circ} 20'$$

$$\varphi = 2^{\circ} 50'$$

$$\sqrt{1-\cos\varphi} = 0,0346$$

$$282 \quad 96$$

$$280 \quad 95,5$$

$$281,5 \quad 98$$

$$281 \quad 97,5$$

$$282,5 \quad 99,5$$

$$281,5 \quad 98$$

diff.

$$186$$

$$184,5$$

$$183,5$$

$$183,5$$

$$183,0$$

$$183,5$$

Öfnes

$$a = 2,4742$$

Körép m.m.

$$918,0 \quad 183,6 \quad 0,9180$$

$$280,5 \quad 159$$

$$281 \quad 159$$

$$281 \quad 159$$

$$282 \quad 160$$

$$281 \quad 158$$

$$121,5$$

$$122$$

$$122$$

$$122$$

$$123$$

$$0,3075$$

$$a = 2,5691$$

Körép m.m.

$$610,5 \quad 122,1 \quad 0,6105$$

$$65^{\circ}$$

$$\varphi = 12^{\circ} 30'$$

$$\sqrt{1-\cos\varphi} = 0,1539$$

$$275 \quad 205$$

$$276 \quad 207$$

$$277 \quad 206,5$$

$$277 \quad 207,5$$

$$277 \quad 207$$

$$170$$

$$169$$

$$170,5$$

$$169,5$$

$$170$$

$$0,2605$$

$$a = 2,3703$$

Körép m.m.

$$349,0 \quad 69,8 \quad 0,3490$$

$$47^{\circ}$$

$$\varphi = 21^{\circ} 30'$$

$$\sqrt{1-\cos\varphi} = 0,2638$$

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$$\varphi = 21^{\circ} 30'$$

$$\sqrt{1 - \cos \varphi} = 0,2638$$

Diff

$$34^{\circ} - \varphi$$

$$a = 2,3313$$

Öfner

$$a = 2,3435$$

Körp m. m.

59,8	0,3490
------	--------

276,5	156,5	120,0
276,5	156	120,5
276	157	119
275	157	118
276	156,5	119,5

0,2480

$$a = 2,2657$$

Körp m. m.

597,0	119,4	0,5970
-------	-------	--------

65°

$$\varphi = 12^{\circ} 30'$$

$$\sqrt{1 - \cos \varphi} = 0,1539$$

280	111,5	
281	103	178
280	103	177
280	103	177
280	101	179
281,5	103	178,5
280	101,5	
280	104	

0,2925

$$a = 2,4233$$

Körp m. m.

~~84° 30'~~

84° 40'

$$\varphi = 2^{\circ} 40'$$

$$\sqrt{1 - \cos \varphi} = 0,03316$$

889,5	177,9	0,8895
-------	-------	--------

$$\varphi = 2^{\circ} 40'$$

$$\sqrt{1 - \cos \varphi} = 0,03316$$

Diff

Öfner

$$a = 2,3490$$

Körp m. m.

177,9	0,8895
-------	--------

282	161	121
281,5	162,5	119
281	162,5	118,5
282	162,5	119,5
281,5	162	119,5

0,2920

$$a = 2,4192$$

Körp m. m.

597,5	119,5	0,5975
-------	-------	--------

65°

$$\varphi = 12^{\circ} 30'$$

$$\sqrt{1 - \cos \varphi} = 0,1539$$

280	211,5	68,5
279	211,5	67,5
279	211	68
279	211	68
279	212,5	66,5

0,2590

$$a = 2,3567$$

Körp m. m.

47°

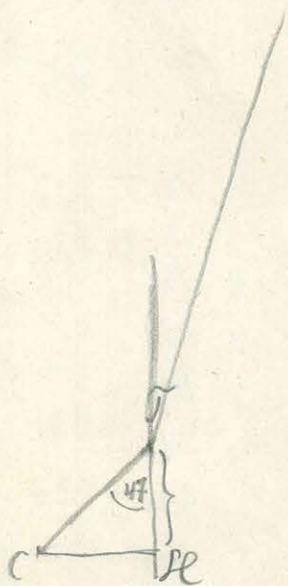
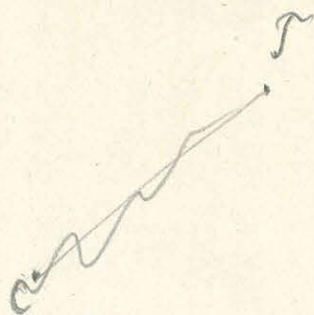
$$\varphi = 21^{\circ} 30'$$

$$\sqrt{1 - \cos \varphi} = 0,2638$$

$$a = 2,2612$$

bevez om 9/18 h. est

338,5	67,7	0,3385
-------	------	--------



Uj' sovornit.
Tavris' meypodit'asaval.

294576 Scala 7 1/2	$\varphi 4$ 26°47'	76	} <u>a = 2,184</u>
17 1/2	42°2'	35,5	
27 1/2	52°45'	5	} <u>a = 2,228</u>
37 1/2	59°40'	87	
57 1/2	68°27'	62	
77 1/2	73°53'	47	
97 1/2	76°31'	40	} <u>2,572</u>
147 1/2	80°56'	26	
207 1/2	83°28'	16,5	

7 1/2	175	} <u>a = 2,206</u>
27°	$\varphi = 31° 30'$ $\sqrt{1-\cos\varphi} = 0,3839$	
21 1/2	22	} <u>a = 2,349</u>
47°	$\varphi = 21° 30'$ $\sqrt{1-\cos\varphi} = 0,2638$	
41 1/2	79	} <u>a = 2,343</u>
62°	$\varphi = 14°$ $\sqrt{1-\cos\varphi} = 0,1723$	
82° 30'	17	
	$\varphi = 3° 15'$ $\sqrt{1-\cos\varphi} = 0,0400$	

$7\frac{1}{2}$ $\frac{20}{\pi} 87\%$

27°
 $19^\circ C.$

267	Körép
257	262,54
249,10	266,5
	258,5
4	1049

11 h.

$\varphi = 83^\circ 30'$
 $\varphi = 3^\circ 15'$

Körép 96,5

$19^\circ C$

0,2606

$21\frac{1}{2}$

47°
 $19^\circ C.$

110	203
103,5	207
102	202
102,5	205
208	205

0,2877 mm.
 $a = 2,396$

45

65°

$19^\circ C$

151,5	
145,5	
151,5	Körép
146	148,025
594,5	

$a = 2,288$

45

65°
 $19^\circ C.$

152	
146	
152	Körép
147	149,25
597	

0,2787 mm.
 $a = 2,536$

$21\frac{1}{2}$

47°

$19^\circ C$

201	
200,5	
204	Körép
200	202,875
811,5	

~~0,2691~~
0,2712
 $a = 2,467$

210

$83^\circ 30'$
 $19^\circ C.$

99	
93	Körép
100	96,5
94	
386	

0,2637
 $a = 2,316$

Ömés $\varphi = 31^\circ 30'$
 $\varphi_c = 3^\circ 15'$
 $r^2 - z_1 = 0,8302$
 $a = 2,414$

$7\frac{1}{2}$

27°

$19^\circ C$

260	
256	
260	Körép
257	259,75
1039	

0,2844
 $a = 2,368$

Ömés $z_2 - z_1 = 0,8162$
 $a = 2,376$

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27°	259,75	0,2975
19°c		<u>a = 2,477</u>
21 1/2	197	
	204	
47°	197	200,25
19°c	200	
	<u>801</u>	0,2612
45	150,5	<u>a = 2,376</u>
65°	145,5	
	150	148
19°c	146	
	<u>592</u>	0,2544
710	102	<u>a = 2,233</u>
	90	
83° 00'	100,5	97,125
19°c	90	
	<u>388,5</u>	2 ₂ -2 ₁₁ 0,8101
		<u>a = 2,364</u>

		0,7976
	97,125	
19°c		0,2593
45	151	<u>a = 2,277</u>
65°	147	149
	157	
19°c	147	
	<u>596</u>	0,2562
21 1/2	201,5	<u>a = 2,331</u>
	198,5	200,25
47°	202,5	
	198,5	
19°c	<u>801</u>	0,2821
7 1/2	261	<u>a = 2,349</u>
27°	250	
	259	256,66
	255	
19°c	<u>1028</u>	2 ₂ -2 ₁ = 0,7976
		<u>a = 2,319</u>

0,7845

256,66

~~a = 2,401~~

19°C

0,2895

2. in 2 h. 15 p.

a hypox 1 brakve peltattus

0,8194

205, $\frac{1}{2}$

83° 30'

8°C

62,5

62,5

62,5

62

249,5

0,2794

a = 2,453

21 $\frac{1}{2}$

196

201

196

202

795

198,75

a = 2,401

0,255

45

65°

7° 5 C.

124

114

121,5

115

474,5

118,25

0,2550

a = 2,320

47°

19°C

45

65°

19°C

149

146,5

149

146,5

591

147,75

a = 2,320

0,245

a = 2,151

1 h.

19° Cel.

1 h.

2₁ + 2₂ = 0,7895

a = 2,295

21 $\frac{1}{2}$

167,5

171,5

167

171

677

169,25

0,2850

a = 2,373

47°

7° 5 C.

7 $\frac{1}{2}$

27°

7° 5 C.

231

222

201

221

905

226,25

2₁ - 2₂ = 0,8194

2,383

210

83° 30'

19°C

103

94

103

95

295

98,75

2₁ + 2₂ = 0,7895

a = 2,295

0,8250

226,25

7° 25' C.

21 1/2

47°

165
172
165

168,25

0,2900
a = 2,415

7° 25' C

171
673

45

65°

119
110
112

116

0,2612
a = 2,376

7°

115
464

0,2738

206 1/4

80° 30'

~~71~~ 63
61
62

61,25

a = 2,404

7°

59
245
~~59~~
~~59~~

2 - 2, = 0,8250

a = 2,399

este 6 h 15 m.

80° 30'

6°

62 59

62 } 60
57 }
62

140

0,2531

45

65°

108
113
109

110,625

a = 2,222

6° C.

112,5
442,5

21 1/2

47°

165
156
165,5

161,375

0,2537
a = 2,308

6° C.

159
645,5

7 1/2

27°

221
214,5
222

218,375

0,2850
a = 2,373

6° C.

216
873,5

2 - 2, = 0,7918

a = 2,302

0,7918

0,7843

218,375

6,5 C

0,2856

a = 2,378

21 1/2

160

160

160

} 161,25

47°

6,5 C

162

645

0,2475

a = 2,252

45

114

108

114

} 111,75

65°

6,5 C

109

447

0,2512

a = 2,206

206

~~58~~ 69

54

68

55

} 61,5

83° 30'

6,5 C

246

a = 0,7843

a = 2,281

1/2 10 Row frisk big in, an eplechek 100%

83° 30'

x 90,5

x 86,5

x 89,5

x 86,5

210

21,5

6,5°

155

152,5

46

154

154

22°

21 1/2

208,5

205

47°

208

205

7 1/2

266

27°

265,5

266

23°

266

	27,25	
21 1/2	209	
47°	206,5	
	204	
	206	

	23,25	
46	153	
65°	150	
	153	
	149,5	

	23,5	
210	103	
83° 30'	90	
	100	
	91	
	23,25	

12 h. 15 m.	29,25 C.	154	
		150	
		153	
		151	

1 h.	21°	157	156,5
		160	160

5 h. 20 m.	17° 5 C.	165	
		157	
		162	
		157	

12 h.	23° 5	106	109
		108	107

Febr. 1) 2. 12 h.

12 h.	20° C.	106	108
		107	107

1/2 10 to 15 cm friss vizony; éftelek' kezdete 10h.45m

7 1/2
27°
228,5
223
227
223,5
22°C.

2 1/2
47°
167
165
165
165
22°C.

4h
65°
109
105
110
105
22°C

210
83° 30'
51,5
48
51
48
22°C

4h
65°
108
106
109
106
22,5°

2 1/2
47°
162
161
160
161
23°C

7 1/2
27°
218,5
218
217,5
219
23°C

Feb. 21
10h 15m. frisp vizay. Epeles Kevete 10h 40m

7 1/2
21 1/2
21°
21,50

235
234
235
235

21 1/2
47°
22°

145
171
143
172

46
65°
22°

110,5
112
115,5
112

21 1/2
83° 30'
22°, 25°

66,5
59
67
58,5

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46
65°
116
111,5
116
111

22°, 750
21 1/2
47°
165
161
163
163

23°
7 1/2
27°
23°, 50

225
225
225
225

21 1/2

44°

23° 50'

165

163

166

163

46

65°

23° 5'

110,5

108

111,5

109

210

83° 30'

23° 45'

50,5

50

57

50

46

65°

23° 45'

113

106

111

105

21 1/2

44°

23° 45'

165

165

164

164,5

7 1/2

27°

23° 45'

226

228

225

228

Febr. 5. 11 Korfrühsbigay

$7\frac{1}{2}$	186,5
27°	186,5
	185
22°C	187

$21\frac{1}{2}$	126
44°	128,5
	124
$22^{\circ}, 45^{\circ}\text{C}$	122

46	69,5
65°	66,5
	69
	68
23°C	

209	10
$83^{\circ}30'$	9
	10
	10
$23^{\circ}, 5$	

46	69
65°	61
	40
$22^{\circ}, 5$	62

$21\frac{1}{2}$	123
	122
44°	123
	122

$23^{\circ}, 75$

$7\frac{1}{2}$	148,5
27°	148
	148
	148,5
$23^{\circ}, 75$	

21 1/2

440

240

121

122,5

120,5

122

46

650

240

71

62,5

71

62,5

46

650

240

68

66

68

65,5

21 1/2

440

240

125

124

125

124

209

83° 30'

240

10

10

9,5

11

7 1/2

240

240

181

181,5

180,5

181,5

febr. 5. d. u. 4h 30 m. a délelőtti híjaz

7 1/2
27°
20°C

185
184
183
184

21 1/2
47°
20,5

129
127
128
127

46
65°
20,45

74
72
73
72

207
83° 20'
21°

17,5
15
17,5
14

46
65°
22°

66
61,5
66,5
65
67,5

21 1/2
47°
22°

120
121
119
121

41 1/2
27°
22°

175
175
175
175

21 1/2

47°

22° 25'

119,5

117

119,5

118,5

46

65°

22° 5'

66

64

65

64,5

207

83° 30'

22° 5'

9

6

8

9

9

9

65°

22 1/2

~~62~~

62

62

62

62

116

47°

116

117

22,5

110

27°

174

174

22,5

174

174

205		19		$\frac{1}{2}$ regji migam felideli	142
83°30'		15,5		$\frac{7}{2}$	168
		18		27°	140
		15			168
	19°			20	
$\frac{4}{2}$		72		$\frac{21}{2}$	118 $\frac{1}{2}$
65°		68		47°	114
		71			118
	19°	68			115
				20	
$\frac{21}{2}$		120		46	64
		120,5		65°	64
47°		120			67
		121			64
	19°			20	
$\frac{7}{2}$		176		206	17
		174		85°20	11
27°		176			13
		178,5			11
	19°			20	

4/6	65
65°	62
	65
	60
20	
2 1/2	116,5
4 1/2	114,5
	115
20	114
7 1/2	170
2 1/2	165
	169
	166
20	

vir lett registre

7 1/2	169
2 1/2	172
	170
20 1/2	172
2 1/2	110
4 1/2	109
	110
	111
20 1/2	
4/6	68
65°	65
	68
	65
20 1/2	
20/6	11
	11
80,20	11
	11
20 1/2	

46	69,5
65°	62
	68
21°	61,5

21½	120
47°	117,5
	120
21°	118

7½	145,5
24°	145,5
	145,5
21°	145,5

MAGYAR
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21½	110
47°	117
	119
21°	110

46	66,5
65°	62
	65
21°	62,5

206	10
87° 20'	9
	10
21°	9,5

~~75° 230
 50° 240 } 310
 60~~

75° 185
 50° 240 } 365
 70

75° 168

~~50 41~~

50° 55 240 240 } 364
 75° 0 0 171

75° 160 0 0 } 364
 50 240 240 44

50° 56 } 365
 75° 171

75° 165 0 0 } 367
 50° 240 240 52

50° 66 240 240 } 368
 75° 0 0 178

75° 168 } 368
 50° 56

265

264

264

265

267

268

268

268

$\frac{266, 66}{480}$ m.m.

7 | 2560 | 366, 66
 46
 40

50°	75	0	240	} 390
75°	0	240	185	

75°	170	240	0	} 410
50	240	0	80	

50	93	0	240	} 397
75	0	240	196	

75	170	240	0	} 413
50	240	0	80	

50	95	0	240	} 414
75°	0	240	181	

75	168	0	0	} 412
50	240	240	80	

50	97	240	240	} 416
	0	240	181	

Highway
 72° 30' reflex 158
 key 152 400
 2

50° 44'	2	250	250	} 405
	0	0	97	

50° 44'	94	0	} 406
	250	250	

94°	246	250	} 403	<u><u>a = 2,493</u></u>
72°	0	90		



240
75
55
520

260
44
377

95
260
59
394

45

$84^{\circ} 39'$
 $\varphi = 2^{\circ} 40'$

4	4
3,5	3,5
3	5
4	5
4	3,5

3,95

Jan. 7.
 III

0,315

a = 2,4486

$113^{\circ} 37'$

$\varphi = 13^{\circ} 11'$

67,5	67,5
67	67
66	67,5
66	67,5
67	66,5

66,95

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

$47^{\circ} 47'$

$\varphi = 21^{\circ} 6'$

114,5	114
112,5	114,5
114,5	11,5
113	11,3
114,5	11,5

114,15

0,236

2,4406

Ormer

0,551

a = 2,4013

2

~~25~~

84° 24'

$\varphi = 2^{\circ} 48'$

98	99,5
98	98,5
2 99	98,5
98	99,5
98	98
98	98
<hr/>	
98,45	

$\varphi = 20$

67° 48'

$\varphi = 13^{\circ} 6'$

164,5	164
164	163
164	163,5
166	165
165	164,5
165,5	164,5
164,5	
166	
<hr/>	
164,6	

0,3307
a = 2,6911

48° 53'

§
 $\varphi = 20^{\circ} 34'$

207	205
206	206
206	207
207	206
207	205
<hr/>	
206,2	

0,208
a = 2,2818

206,2

0,5387
<u><u>a = 2,4734</u></u>

0,5387

~~a = 2,2818~~

$$\phi = 20^{\circ} 34'$$

206,2

$$63^{\circ} 28'$$

165	166
165	165,5
165	166
166	165
165	165,5

0,204

a = 2,2921

$$\phi = 13^{\circ} 16'$$

165,5

$$84^{\circ} 26'$$

$$\phi = 2^{\circ} 47'$$

103	100
102,5	100
100	101
102	100
102	100

0,3223

a = 2,5023

101,05

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

Összes
0,5263

2,4164

I)

$$\varphi = 2^{\circ} 47'$$

101,15

$$14^{\circ} 52'$$

158	159
157,5	158
157	160
157	158
158	157

0,2795

a = 2,3233

$$\varphi = 12^{\circ} 34'$$

156,95

$$48^{\circ} 52'$$

200,5	200,5
200,5	203,5
204	203,5
200,5	204
204	204
	204
	203,5

0,2337

a = 2,4114

$$\varphi = 20^{\circ} 34'$$

203,7

0,5132

a = 2,3559

$$1) \left. \begin{array}{l} 9^{\circ} 7' \\ 28^{\circ} 37' \end{array} \right\} 0,5700 \quad a = 2,4152$$

$$2) \left. \begin{array}{l} 9^{\circ} 15' \\ 28^{\circ} 32' \end{array} \right\} 0,5650 \quad a = 2,4114$$

$$3) \left. \begin{array}{l} 9^{\circ} 15' \\ 29^{\circ} 20' \end{array} \right\} 0,5975 \quad a = 2,4078$$

$$4) \left. \begin{array}{l} 8^{\circ} 59' \\ 29^{\circ} 20' \end{array} \right\} 0,6100 \quad a = 2,4686$$

$$5) \left. \begin{array}{l} 8^{\circ} 59' \\ 29^{\circ} 30' \end{array} \right\} 0,6150 \quad a = 2,4682$$

$$6) \left. \begin{array}{l} 8^{\circ} 50' \\ 29^{\circ} 29' \end{array} \right\} 0,6075 \quad a = 2,4203$$

$$7) \left. \begin{array}{l} 9^{\circ} \\ 28^{\circ} 29' \end{array} \right\} 0,5875 \quad a = 2,4768$$

$$8) \left. \begin{array}{l} 9^{\circ} 12' \\ 28^{\circ} 29' \end{array} \right\} 0,5875 \quad a = \frac{\cancel{2,4998}}{\cancel{2,5053}} 2,5053$$

$$9) \left. \begin{array}{l} 9^{\circ} 12' \\ 30^{\circ} 3' \end{array} \right\} 0,6125 \quad a = 2,4199$$

$$10) \left. \begin{array}{l} 7^{\circ} 7' \\ 24^{\circ} 57' \end{array} \right\} 0,5298 \quad a = 2,4348$$

$$11) \left. \begin{array}{l} 6^{\circ} 55' \\ 25^{\circ} 16' \end{array} \right\} 0,5455 \quad a = 2,4396$$

$$12) \left. \begin{array}{l} 2^{\circ} 30' \\ 21^{\circ} 44' \end{array} \right\} 0,5554 \quad a = 2,3624$$

$$13) \left. \begin{array}{l} 2^{\circ} 40' \\ 21^{\circ} 6' \end{array} \right\} 0,5570 \quad a = 2,4013$$

$$14) \quad \left. \begin{array}{l} 2^{\circ} 48' \\ 20^{\circ} 24' \end{array} \right\} 0,5387 \quad a = 2,4734$$

$$15) \quad \left. \begin{array}{l} 2^{\circ} 47' \\ 20^{\circ} 34' \end{array} \right\} 0,5263 \quad a = 2,4164$$

$$16) \quad \left. \begin{array}{l} 2^{\circ} 47' \\ 20^{\circ} 34' \end{array} \right\} 0,5132 \quad a = 2,3559$$

$$17) \quad \left. \begin{array}{l} 2^{\circ} 20' \\ 20^{\circ} 31' \end{array} \right\} 0,5035 \quad a = 2,2528$$

$$18) \quad \left. \begin{array}{l} 2^{\circ} 20' \\ 20^{\circ} 4' \end{array} \right\} 0,5165 \quad a = 2,3704$$

$$19) \quad \left. \begin{array}{l} 2^{\circ} 39' \\ 20^{\circ} 4' \end{array} \right\} 0,4910 \quad a = 2,3052$$

$$20) \quad \left. \begin{array}{l} 2^{\circ} 39' \\ 20^{\circ} 23' \end{array} \right\} 0,5205 \quad a = 2,3525$$

$$21) \quad \left. \begin{array}{l} 2^{\circ} 18' \\ 20^{\circ} 23' \end{array} \right\} 0,5205 \quad a = 2,3502$$

$$22) \quad \left. \begin{array}{l} 2^{\circ} 18' \\ 20^{\circ} 42' \end{array} \right\} 0,5255 \quad a = 2,3263$$

$$23) \quad \left. \begin{array}{l} 2^{\circ} 50' \\ 20^{\circ} 42' \end{array} \right\} 0,5265 \quad a = 2,3975$$

$$24) \quad \left. \begin{array}{l} 2^{\circ} 50' \\ 21^{\circ} 38' \end{array} \right\} 0,5515 \quad a = 2,3885$$

$$25) \quad \left. \begin{array}{l} 2^{\circ} 50' \\ 21^{\circ} 37' \end{array} \right\} 0,5603 \quad a = 2,4287$$

$$26) \quad \left. \begin{array}{l} 2^{\circ} 50' \\ 21^{\circ} 33' \end{array} \right\} 0,5400 \quad a = 2,3499$$

~~2,3931~~
30,7697

27) $\left. \begin{matrix} 2^{\circ} 50' \\ 21^{\circ} 33' \end{matrix} \right\} 0,5255 \quad a = 2,2868$

28) $\left. \begin{matrix} 2^{\circ} 50' \\ 21^{\circ} 30' \end{matrix} \right\} 0,5680 \quad a = 2,4782$

29) $\left. \begin{matrix} 2^{\circ} 40' \\ 21^{\circ} 30' \end{matrix} \right\} 0,5405 \quad a = 2,3435$

30) $\left. \begin{matrix} 2^{\circ} 40' \\ 21^{\circ} 30' \end{matrix} \right\} 0,5510 \quad a = 2,3890$

1-9 értékek Quoy társaság, a többiek üveggel.

Körszéklet $a = 2,3966$

Lagnay 66 talált 8 március $a = 2,5053$

Lagnay 66 talált érték 17 március $a = 2,2528$

Egyéb hasonlítás.

Ötörös	2,397
Laplace	2,55
Poisson	2,554
Hagen	2,62 - 2,68
Biede	2,66
Danger	2,59
Desains	2,62 - 2,65
Quincke	2,861 - 2,941

- | | | | | | | |
|-----|-----------------|----------|------------------------------|-----------------|----------|------------------------------|
| 1) | $2^{\circ}30'$ | } 0,3207 | <u>$a=2,4744$</u> | $13^{\circ}5'$ | } 0,2347 | <u>$a=2,2350$</u> |
| | $13^{\circ}5'$ | | | $21^{\circ}44'$ | | |
| 2) | $2^{\circ}40'$ | } 0,3150 | <u>$a=2,4486$</u> | $13^{\circ}11'$ | } 0,2360 | <u>$a=2,4406$</u> |
| | $13^{\circ}11'$ | | | $21^{\circ}6'$ | | |
| 3) | $2^{\circ}48'$ | } 0,3307 | <u>$a=2,6911$</u> | $13^{\circ}6'$ | } 0,2080 | <u>$a=2,2818$</u> |
| | $13^{\circ}6'$ | | | $20^{\circ}34'$ | | |
| 4) | $2^{\circ}47'$ | } 0,3223 | <u>$a=2,5023$</u> | $13^{\circ}16'$ | } 0,2040 | <u>$a=2,2921$</u> |
| | $13^{\circ}16'$ | | | $20^{\circ}34'$ | | |
| 5) | $2^{\circ}47'$ | } 0,2795 | <u>$a=2,3233$</u> | $12^{\circ}34'$ | } 0,2337 | <u>$a=2,4114$</u> |
| | $12^{\circ}34'$ | | | $20^{\circ}34'$ | | |
| 6) | $2^{\circ}35'$ | } 0,3152 | <u>$a=2,548$</u> | $12^{\circ}37'$ | } 0,2040 | <u>$a=2,109$</u> |
| | $12^{\circ}37'$ | | | $20^{\circ}34'$ | | |
| 7) | $2^{\circ}50'$ | } 0,2948 | <u>$a=2,4243$</u> | $12^{\circ}42'$ | } 0,2655 | <u>$a=2,4335$</u> |
| | $12^{\circ}42'$ | | | $21^{\circ}37'$ | | |
| 8) | $2^{\circ}50'$ | } 0,2855 | <u>$a=2,3931$</u> | $12^{\circ}30'$ | } 0,2545 | <u>$a=2,3031$</u> |
| | $12^{\circ}30'$ | | | $21^{\circ}33'$ | | |
| 9) | $2^{\circ}50'$ | } 0,2730 | <u>$a=2,2883$</u> | $12^{\circ}30'$ | } 0,2525 | <u>$a=2,2851$</u> |
| | $12^{\circ}30'$ | | | $21^{\circ}33'$ | | |
| 10) | $2^{\circ}50'$ | } 0,3075 | <u>$a=2,5691$</u> | $12^{\circ}30'$ | } 0,2605 | <u>$a=2,3703$</u> |
| | $12^{\circ}30'$ | | | $21^{\circ}30'$ | | |
| 11) | $2^{\circ}40'$ | } 0,2925 | <u>$a=2,4233$</u> | $12^{\circ}30'$ | } 0,2480 | <u>$a=2,2657$</u> |
| | $12^{\circ}30'$ | | | $21^{\circ}30'$ | | |
| | $2^{\circ}40'$ | } 0,2920 | <u>$a=2,4192$</u> | $12^{\circ}30'$ | } 0,2590 | <u>$a=2,3567$</u> |
| | $12^{\circ}30'$ | | | $21^{\circ}30'$ | | |

Körépiétel $a=2,4585$

A görbületi sugár körépiételben
körülbelül ¹³⁶ m.m.
 $a^2=6,0418$

Körépiétel $a=2,3153$

A görbületi sugár körépiételben
körülbelül ¹⁵⁸ m.m.
 $a^2=5,3592$

1) $\varphi_1 = 45^\circ - 16^\circ 28' 10'' = 28^\circ 31' 50''$
 $\varphi_2 = 45^\circ - 35^\circ 53' 10'' = 9^\circ 6' 50''$ } ~~0,5750~~ - $a\sqrt{2} = 2,4152$
 0,5700

2) ~~$\varphi_1 = 45^\circ - 35^\circ 45' = 9^\circ$~~
 ~~$\varphi_2 = 9^\circ 6' 50''$~~
 $\varphi_1 = 28^\circ 31' 50''$
 $\varphi_2 = 45^\circ - 35^\circ 45' = 9^\circ 15'$ } 0,5650
 - $a\sqrt{2} = 2,4114$

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3) $\varphi_1 = 45^\circ - 15^\circ 39' 40'' = 29^\circ 20' 20''$
 $\varphi_2 = 45^\circ - 36^\circ 15' = 9^\circ 15'$ } 0,5975
 - $a\sqrt{2} = 2,4078$

4) $\varphi_1 = 29^\circ 20' 20''$
 $\varphi_2 = 45^\circ - 36^\circ 30'' = 8^\circ 54' 20''$ } 0,6100
 - $a\sqrt{2} = 2,4686$

5) $\varphi_1 = 45^\circ - 15^\circ 21' = 29^\circ 29'$
 $\varphi_2 = 8^\circ 54' 20''$ } 0,6150
 - $a\sqrt{2} = 2,4682$

6) $\varphi_1 = 29^\circ 29'$
 $\varphi_2 = 45^\circ - 36^\circ 10' = 8^\circ 50'$ } 0,6075
 - $a\sqrt{2} = 2,4200$

7) $\varphi_1 = 45^\circ - 16^\circ 30' 50'' = 28^\circ 29' 10''$
 $\varphi_2 = 45^\circ - 35^\circ 54' 30'' = 9^\circ 30''$ } 0,5875
 - $a\sqrt{2} = 2,4768$

8) $\varphi_1 = 28^\circ 29' 10''$
 $\varphi_2 = 45^\circ - 35^\circ 47' 30'' = 9^\circ 12' 20''$ } 0,5875
 - $a\sqrt{2} = 2,5050$

9) $\varphi_1 = 45^\circ - 14^\circ 56' 40'' = 30^\circ 3' 20''$
 $\varphi_2 = 9^\circ 12' 20''$ } 0,6125
 - $a\sqrt{2} = 2,4199$

villamindítási erejű
 irahamereső
 indítási/vezénylő erejű.
 18 lapon.

$26,8679/11 = 2,4425$
 22
 48
 46
 2759

- 2,4152
- 2,4114
- 2,4686
- 2,4078
- 2,4682
- ~~2,4200~~
- 2,4768
- 3,5050
- 2,4199
- 2,4348
- 2,4396
- 2,4203
- 26,8679

$$\frac{z^2 - z_1}{\sqrt{1 - \cos \varphi_0} - \sqrt{1 - \cos \varphi_1}}$$

$$\varphi = \frac{\frac{\pi}{2} - \psi}{2}$$

$$\frac{965}{2000} = 4$$

1650
500 705
1050

$\varphi_1 = 72^\circ 1'$ $\varphi_1 = 45^\circ - 36^\circ 30'' = 8^\circ 59' 30''$ $\varphi_2 = 68^\circ 18' 40''$ $\varphi_2 = 45^\circ - 34^\circ 9' 20'' = 10^\circ 50' 40''$

$z_2 - z_1 = -\frac{13}{200} = -0,065$

$\cos \varphi_1 = 0,9877$ $\sqrt{1 - \cos \varphi_1} = 0,0123$ $\log(1 - \cos \varphi_1) = 0,08991 - 2$
 $\cos \varphi_2 = 0,9822$ $1 - \cos \varphi_2 = 0,0178$ $\log(1 - \cos \varphi_2) = 0,25042 - 2$

$\frac{1}{2} \log(1 - \cos \varphi_1) = 0,04495 - 1$ $\sqrt{1 - \cos \varphi_1} = 0,1223$ $\sqrt{1 - \cos \varphi_1} = 0,1109$
 $\frac{1}{2} \log(1 - \cos \varphi_2) = 0,12521 - 1$ $\sqrt{1 - \cos \varphi_2} = 0,1334$

$650/101 = 6,4356$
 606
 440
 404
 360
 320
 280
 240
 200

$-a\sqrt{z} = \frac{0,065}{0,0225} = 2,8888$ $650/225 = 2,8888$
 450
 2000
 1800
 2000
 2800

$\sqrt{1 - \cos \varphi_1} = 0,1334$

$\varphi_2 = 45^\circ - 36^\circ 26' 20'' = 14^\circ 33' 20''$

$\sqrt{1 - \cos \varphi_2} = \cos \varphi_2 = 0,9679$ $\sqrt{1 - \cos \varphi_2} = 0,0321$

$\log(1 - \cos \varphi_2) = 0,50651 - 2$ $\frac{1}{2} \log() = 0,2532 - 1$

$\sqrt{1 - \cos \varphi_2} = 0,1792$

$\sqrt{1 - \cos \varphi_2} - \sqrt{1 - \cos \varphi_1} = 0,0458$

$210/2000 = 0,1050$
 210
 1680
 1200
 1050
 1500

$\varphi_2 = 45^\circ - 24^\circ 2' 20'' = 20^\circ 57' 20''$

$\cos \varphi_2 = 0,9339$

$1 - \cos \varphi_2 = 0,0661$

$\log() = 0,82020 - 2$

$\frac{1}{2} \log() = 0,41010 - 1$

$\sqrt{1 - \cos \varphi_2} = 0,2580$

$\sqrt{1 - \cos \varphi_2} - \sqrt{1 - \cos \varphi_1} = 0,1246$

$650/200 = 3,25$ $z_2 - z_1 = \frac{61}{200} = 0,305$

$3500/1246 = 2,809$
 2492

$\varphi_2 = 45^\circ - 17^\circ 29' = 27^\circ 31'$

$\cos \varphi_2 = 0,8869$

$1 - \cos \varphi_2 = 0,1131$

$\log() = 0,05346 - 1$

$\frac{1}{2} \log() = 0,02673 - \frac{1}{2}$
 $= 0,52673 - 1$

$\sqrt{1 - \cos \varphi_2} = 0,3363$

$\sqrt{1 - \cos \varphi_1} = 0,2580$

$0,0783$

$360/200 = 1,8$
 360
 200
 1600

$1800/783 = 2,2988$
 1566

2340
 1566
 7740
 7047
 6930
 6264
 6666

$\psi_1 = 71^\circ 46' 20''$ $\varphi_1 = 45^\circ - 35^\circ 53' 10'' = 9^\circ 6' 50''$ $z_2 - z_1 = -0,1625$
 $\varphi_2 = 60^\circ 01'$ $\varphi_2 = 45^\circ - 30^\circ 15' 30'' = 14^\circ 44' 30''$

$\cos \varphi_1 = 0,9875$ $1 - \cos \varphi_1 = 0,0125$ $\log() = 0,09691 - 2$ $\frac{1}{2} \log = 0,04845 - 1$
 $\cos \varphi_2 = 0,9670$ $1 - \cos \varphi_2 = 0,0330$ $\log() = 0,51851 - 2$ $\frac{1}{2} \log = 0,25921 - 1$

$1625/699 = 2,3247$
 $\begin{array}{r} 1298 \\ 2270 \\ 2097 \\ 1730 \\ 1598 \\ \hline 3320 \\ 2796 \\ \hline 5240 \end{array}$

$\sqrt{1 - \cos \varphi_1} = 0,1118$ $\sqrt{1 - \cos \varphi_2} = 0,1817$
 $\sqrt{1 - \cos \varphi_2} - \sqrt{1 - \cos \varphi_1} = 0,0699$
 $-a\sqrt{z} = \frac{1625}{699} = 2,3247$

$\psi_1 =$
 $\varphi_2 = 45^\circ - 50^\circ$ $\varphi_2 = 23^\circ 44' 30'' = 21^\circ 12' 00''$

$\cos \varphi_2 = 0,9223$ $1 - \cos \varphi_2 = 0,0677$
 $\log() = 0,83059 - 2$
 $\frac{1}{2} \log = 0,41529 - 1$

$\sqrt{1 - \cos \varphi_2} - \sqrt{1 - \cos \varphi_1} = 0,0783$
 $-a\sqrt{z} = \frac{2050}{783}$

$\sqrt{1 - \cos \varphi_2} = 0,2600$ 1817
 $2050/783 = 2,6181$
 $\begin{array}{r} 1566 \\ 4840 \\ 9915 \\ 4698 \\ 1420 \\ 783 \\ \hline 6370 \\ 6216 \\ \hline 106 \end{array}$

$\varphi_2 = 45^\circ - 16^\circ 28' 10'' = 28^\circ 31' 50''$
 $\cos \varphi_2 = 0,8868$ $1 - \cos \varphi_2 = 0,1132$

$\log 1 - \cos \varphi_2 = 0,05085 - 1$
 $\frac{1}{2} \log() = 0,02692 - \frac{1}{2}$
 $= 0,52692 - 1$ $0,526$

$\sqrt{1 - \cos \varphi_2} = 0,336$
 $\sqrt{1 - \cos \varphi_1} = 0,260$
 $\hline 0,076$

$2025/760 = 2,6513$
 $\begin{array}{r} 1520 \\ 4950 \\ 4560 \\ 3900 \\ 3800 \\ 1000 \\ 760 \\ \hline 2460 \end{array}$

$\begin{array}{r} 82/20 \\ \hline 91 \frac{1}{2} \\ 716 \\ 23712 \\ \hline 1380 \\ 275 \\ 657 \end{array}$

MALYAK
 TUDOMÁNYI AKADEMIA
 KÖNYVTÁRA

$\begin{array}{r} 10500 \\ 8021 \\ \hline 277899 \end{array}$

febr 26-án homokos vízföldszelvény.

44	25	250	250	240	3,075	3,106
56	0	85			614	
	85	250	250	374	3,127	
84	0	0	211			
84	197	0	0	395	640	3,263
56	250	250	92			
44	92	0		245		
	250	87				
44	95	250	249	625		
56	0	96				
	96	250	250	376		
84	0	0	220			
84	210	0	0	288	606	
56	250	250	98			
	98	0		248		
44	250	96				
44	112	250	252	642		
56	0	105				
	105	250	250			
84	0	0	220	385		
84	216	0	0	389	644	
56	250	250	105			
	105	0		255		
44	250	110				

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

Lehrb. d. n. Komorra vierfelhücker

44	141	250	250	} 256	} 646
56	100	125			
	125	250	250	} 390	
84	0	0	245		

84	225	0	0	} 398	} 646
56	250	250	100		
	100	0		} 248	
44	250	101			

44	140	0		} 246	} 645
56	250	129			
	129	250	250	} 399	
84	0	0	240		

84	228	0	0	} 404	} 632
56	250	250	128		
	128	0		} 232	
44	250	120			

44	125	250		} 253	} 646
56	0	122			
	122	250	250	} 393	
84	0	0	229		

84	217	0	0	} 396	} 635
56	250	250	110		
	110	0		} 259	
44	250	122			

70	20	250	250	} 426
44	0	0	54	

44	71	0	0	} 462
70	250	250	22	

70	25	250	250	} 461
44	0	0	64	

44	72	0	0	} 462
70	250	250	24	

a kéfirlelt beállítás maradt
 még alacsonyul

70°	227	250	} 427
44°	0	50	

70°	54	0	} 434
70°	250	208	

MAGYAR
 TUDOMÁNYOS AKADÉMIA
 KÖNYVTÁRA

70	126	0	0	} 517
44	250	250	140	
44	142		250	} 522
70	0	250	120	
70	127		0	} 508
44	250	250	105	
44	129		250	} 511
70	0	250	118	
70	126		0	} 502
44	250	250	124	
44	126		250	} 506
70	0	250	124	
44	135		250	} 521
70	0	250	114	
70	119		0	} 517
44	250	250	126	
44	126		250	} 573
70	0	250	127	
70	129		0	} 507
44	250	250	106	
44	124		250	} 573
70	0	250	121	
70	126		0	} 510
44	250	250	126	
44	128		250	} 520
70	0	250	118	
70	125		0	} 505
44	250	250	170	

Wormer

Deliber

Schwartz 20. d. e.

§

feltöltve, magarabó menis as

emberris

44	2	0		
70	250	204		452
44	195	250		445
44	0	0		
44	8	0		446
70	250	204		

70	208	250		445
44	0	13		

44	80	0	0	435
70	250	250	85	

70	21	210	250	444
44	0	0	77	

44	95	0	0	433
70	250	250	28	

70	152	250	250	443
44	0	0	209	

szállások meg lett fizetve

be-
lelt

febr. 20. d. m.

via lett dövés

44	142		
70			

70	205	250	250	459
44	0	0	246	

44	244	0	0	471
70	250	250	215	

70	212	250		460
44	0	2		

44	70	0		456
70	250		216	

70	78	250	250	457
44	0	101	121	

44	100	0	0	460
70	250	250	90	

szállás levéne 70 } 458 } 44 } 441
44 } 44

Jenőborn

be-
lelt

febr. 20. d. m.

70° 210 250 } 445
 44° 0 78 } 445

44° 15 0 } 450
 70° 250 215 }

70° 216 250 } 448
 44° 0 18 }

44° 61 0 0 } 446
 70 250 250 7 }

70° 9 250 250 } 437
 44 0 0 32 }

44 77 0 0 } 447
 70 250 250 24 }

70 22 250 250 } 426
 44 0 0 86 }

Feb. 20. d. e.
 Feb. 20 d. p.
 Indl. 20 d. p.

MAGYAR
 TUDOMÁNYOS AKADÉMIA
 KÖNYVTÁRA

§

higony verh...

111	123	0	
70°	250	206	333
	206	0	
88°,5	250	108	152

88°,5	33,5	250	159,5
70°	0	124	

negatívus

	124	250	
44°	0	18,5	355,5

44°	2,5	0	1
70°	250	115,5	240

	115,5	0	
88°,5	250	18	152,5

88°,5	3,5	250	
70°	0	135	150

	135	250	
44°	0	42	240

44°	24,5	0	
70°	250	133	358,5

	100	0	155
88°,5	250	28	

88°,5	52	250	148
70°	0	154	

	154	250	
44°	0	56	348

44°	50	0	346
70°	250	146	

	146	0	153
88°,5	250	49	

88,5 58,5 250 148,5

~~70°~~ 0 160

160 250

44° 0 65 345

44° 57 0 343

~~70°~~ 250 150

150 0 157

88,5 250 57

88,5 64 250 148

0 162

70° 162 250 347,5

0 68½

44°

in honori

44° x 510 0.2 }
70° 250 250 85 } 534

~~70° 98 250 250~~
0 0 126
124
90

44° 150 — }
70° 179 } 529

70° 182 }
44° 182 } 500

70° }
44° 170 182 } 512

Valores verticales.

5

70 157 0 0 } 514
44 250 250 165 }

440 170 250 250 } 525
700 0 0 145 }

700 140 0 0 } 523
440 250 250 166 }

440 170 } 530
700 140 }

700 141 } 523
44 164 }

440 165 } 523
700 142 }

700 145 } 516
440 161 }

440 158 } 515
700 140 }

20/16 allott honosdíj viz			
26	242	250	418
50	0	74	
50	74	250	301
65	0	20	
65	20	250	229
80	0	44	948
80	52	0	948
85	250	27	225
65	27	0	708
50	250	8,5	
50	85	0	415
26	250	250	
20/16 a legnagy pénzes viz			
26	11,5	250	383
50	0	22	
50	22	250	292
65	0	0	675
26	168	250	581
50	0	27	
50	27	250	295
65	0	0	676
65	242	210	
80	32		886
80	45		845
65	253		208
65	0	0	
50	250	45	292
50	45	0	667
26	250	120	295

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

26/1 péns. vinet domborine

26	129	0	} 271	
50	250	260		
50	110	0	} 264	635
65	250	24		
65	24		} 200	825
80	224			

80	214		} 192	809
65	22			
65	22	250	} 265	617
50	0			
50	7	250	} 352	
26	0	0		

MASTAK
HONKILAINEN
KONNINEN

My
Lover to the Mother in!

Kiven loppu sinen Dr. Helsingin
Kivessä on a valjainah meymon

7/6 napra homorú virágok			8/6 napra homorú virágok				
26	121	250	359	93	250	242	348
50	0	12		50	0	30	245
50	12	250		50	245	250	
65	0	0	242	65	0	227	262
65	242		191	65	227		197
80	57			80	56		
80	56	0	210	80	47		208
65	250	16		65	255		
65	16	0	270	65	5		259
50	250	26		50	264		
50	26	0	343	50	14	0	342
26	250	129		26	250	106	
26	129	250	266	26 el felgyantán			
50	0	23		26	184	250	375
50	22	250	262	50	0	59	
65	0	10		50	59	250	280
65	10	250	207	65	6	29	
80	0	50		65	29	250	209
80	34		204	80	0	70	864
65	278			80	72	0	213
65	278	0	267	65	250	25	
50	250	255		65	25	0	271
50	55	0	346	50	250	16	
36	250	96		50	56	0	
				26	250	177	371
				36	175	250	376
				50	0	99	
				50	49	250	274
				65	0	25	
				65	25	250	214
				80	0	61	

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

= 150

1/6 friss homorin vinfelület				1/6 feltöltött em domborin				1/6
80	100	0	206	80	180	250	195	
65	250	56		65	0	225		
65	56	0	289	65	225			
50	250	95		50	121	0	361	
50	95	0		50	250	222		
26	250	219	269	50	222	0	273	
26	197	0			65	250		285
26	250	190		65	5			
26	197	250	398	80	185		180	
50	0	19			80	176		250
50	19	250	282	65	0	225		
65	0	27			65	225	250	255
65	27	250	217	50	0	220		
80	0	60			50	220	210	252
80	69	0	211	26	0	128		
65	250	20			26	122	0	253
65	0	0	280	50	250	225		
50	250	60			50	225	0	265
50	60	0	244	65	250	250		
26	250	190			59	0		187
friss domborin				80	187			
26	189	0	267	80	191		189	
50	250	250			65	2		
50	56	0	269	65	225	250	262	
65	250	75			50	0		240
65	75	0	220	50	240	250	335	
80	250	45			26	0		155

homoroi	1/6	leesapoltan	homoroi	26	107	250	285
				50	0	22	285
				50	22	250	264
				65	0	8	599
				65	8	250	193
				80	0	65	792
				Jelkavanlam			871
				80	87	0	205
				65	250	42	626
34				65	42	0	264
				50	250	60	
14				50	80	0	258
98				26	250	168	
				26	162	250	263
				50	0	49	
07				50	49	250	269
				65	0	20	622
				65	20	250	197
				80	0	80	829
				80	88	0	817
				65	250	28	611
				65	28	0	
				50	250	53	265
618				50	53	0	346
				26	250	149	
805				26	144	250	250
286				50	0	44	
				50	44	250	270
97				65	0	24	620
				65	24	250	196
				80	0	78	816

14/6	föld domború		
80	114	250	204
65	0	162	
65	162	250	269
50	0	142	
50	140	250	265
26	0	28	

80	244	180	750
65	68		
65	68	250	248
50	0		
50	70	250	322
26	0		

26	44	0	366
50	250	162	
50	162	0	283
65	250	195	
65	195	0	199
80	250	144	
80	126	250	184
65	0	202	
65	202	250	264
50	0	188	
50	188	250	356
26	0	82	

16/6	Nyomár beállítva fűzőre		
26	226	250	349
50	0	127	
50	127	250	270
65	0	117	
65	117	250	187
80	0	180	
80	195	0	185
65	250	120	
65	120	0	267
50	250	147	
50	147	0	259
26	250	256	

17/6	föld domború		
26	259	0	306
50	250	250	
50	250	0	245
65	250	70	
65	70	0	194
80	250	14	

26	245	250	355
50	0	140	
50	140	250	266
65	0	124	
65	124	250	187
80	0	187	
80	197	0	186
65	250	122	
65	122	0	264
50	250	147	
50	147	0	357
26	250	254	

MAGYAR
TUDOMÁNYOS AKADÉMIA
KÖNYVTÁRA

1/6 domború virágfélék					
26	115	0	260	26	115 0 } 348
50	250	120		50	250 210 } 348
50	120	0		50	210 0 } 256
65	250	162	292	65	250 219 } 604
65	162	0		65	219 0 } 652
80	250	110	201	80	250 165 } 196
80	104	250	184	80	161 250 } 792
65	0	170		65	0 216 } 195
65	170	250	280	65	216 250 } 597
50	0	140		50	0 207 } 259
50	140	250	343	50	207 210 } 338
26	0	47		26	0 119 } 622
7/6 állott domború virágfélék					
26	113	0	338	26	125 0 } 250
50	250	201		50	250 225 } 610
50	201	0	270	50	225 0 } 260
65	250	221		65	250 225 } 182
65	221	0		80	250 167 } 792
80	250	158	187	80	162 250 } 749
80	148	250	187	65	0 224 } 593
65	0	211		65	224 250 } 257
65	211	250	256	50	0 222 } 152
50	0	205		50	222 210 } 601
50	205	250	345	26	0 101 } 342
26	0	110			

36°	158 - 0	} 331	
48°	250 - 72		
48	72 - 0	} 247	583
60	250 - 75		
60	75 - 0	} 184	767
72	250 - 141		
72	141 - 0	} 144	911
82	250 - 247		

82°	} 124	}	}
72°			
72°	} 196	}	}
60			
60	} 249	}	}
48			
48	} 317	}	}
36			

dehullat

82	10	} 130	
72	190		
72	190 - 0	} 189	
60	250 79		
60	79 - 0	} 246	573
48	250 75		
48	75 - 0	} 327	
36	250 152		

82	229	0	} 156	912
72	250	125		
72	125	0	} 200	756
60	250	85		
60	85	0	} 235	556
48	250	70		
48	70	0	} 321	
36	250	141		

36	142	250	} 327	
48	0	65		
48	65	250	} 253	
60	0	62		
60	62	250	} 178	580
72	0	124		
72	124	250	} 162	752
82	0	221		

36	129	250	} 323	
48	0	66		
48	66	250	} 246	569
60	0	70		
60	70	250	} 188	752
72	0	122		
72	122	250	} 162	919
82	0	220		

MAGYAR
TUDOMÉNYOS AKADÉMIA
KÖNYVTÁRA

4/6 domború virfelű led

26	32	0	2	310		82	107	2	104	805
48	250	92				72	3			701
48	92	0	2	226		72	2	250	180	
60	250	68			526	60	0	73		
60	68				3	60	73	250	218	521
72	240			175		48	0	105		
72	240	0	2	96	711	48	105	250		
82	250	89			807	26	0	52	303	
82	92	250			807					
72	242			100						
72	242				707					
60	68			174						
60	68	250			528					
48	0	96		222						
48	96	250								
26	0	25		311						
26	43	0		317						
48	250	112								
48	112	0		215						
60	250	77			522					
60	77	0		172						
72	250	5			704					
72	5			102						
82	107				806					

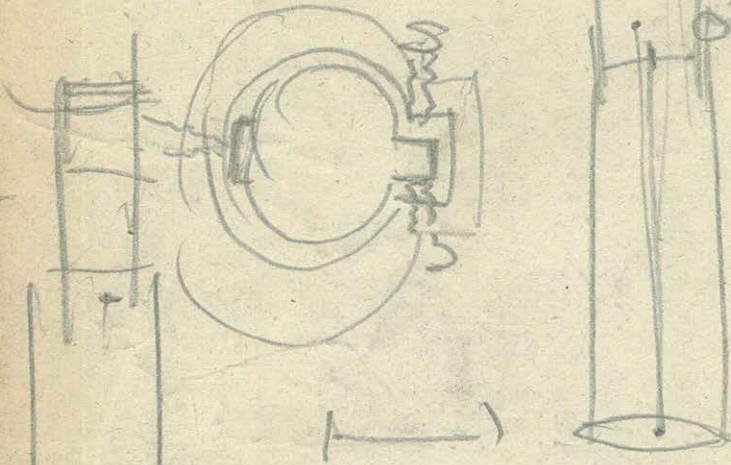
5/6 domború virfelű led

26	48	0	2	265		82	107	2	104	805
48	250	92				72	3			701
48	92	0	2	226		72	2	250	180	
60	250	69				60	0	73		
60	69					60	73	250	218	521
72	240			172		48	0	105		
72	240	0	2	96		48	105	250		
82	250	89				26	0	52	303	
82	92	250			807					
72	242			100						
72	242				707					
60	68			174						
60	68	250			528					
48	0	96		222						
48	96	250								
26	0	25		311						
26	43	0		317						
48	250	112								
48	112	0		215						
60	250	77			522					
60	77	0		172						
72	250	5			704					
72	5			102						
82	107				806					

4/6 komorú virfelű led
 utolsó beállítás frissítés

36	32	250	250	414		82	107	2	104	805
50	0	0	118			72	3			701
50	118	250				72	2	250	180	
65	0	59		309		60	0	73		
65	59	250			722	60	73	250	218	521
80	0	80				48	0	105		
80	86	0		223		48	105	250		
65	250	59			705	26	0	52	303	
65	59	0		307						
50	250	118								
50	118	0	0		707					
36	250	250	14							
26	17	250	250		407					
50	0	0	110							
50	110	250		309						
65	0	57			716					
65	57	250		222						
80	0	79								
80	84	0		224						
65	250	57			704					
65	57	0		298						
50	250	106								
50	106	0	0							
26	250	250	12		406					

$$\begin{array}{r} 9000 / 1207 / 2.91 \\ 2402 \\ \hline 5980 \end{array}$$



$$e^{r^2} = p$$

Weg p = ...

put p = ...

c^2 in qdr p

qdr = m r p

5196500