

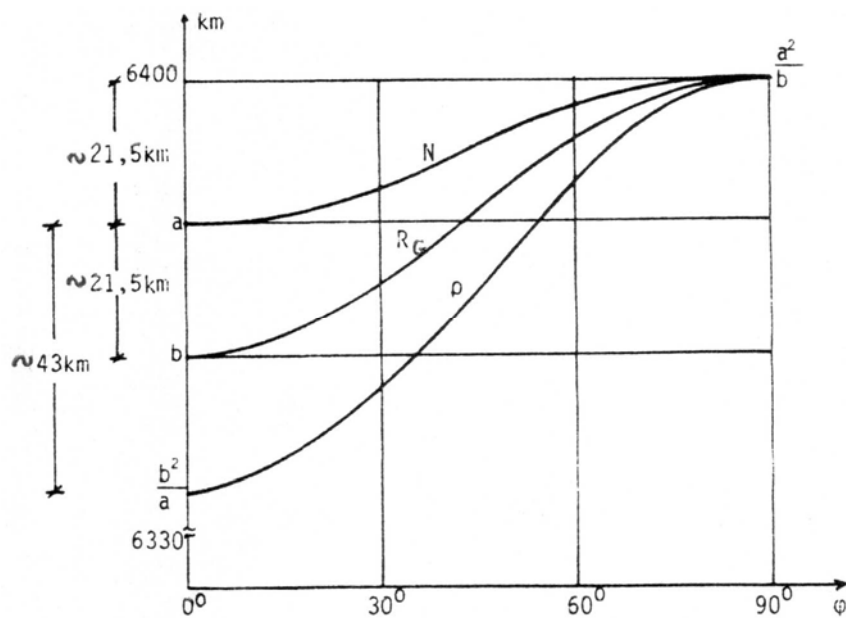
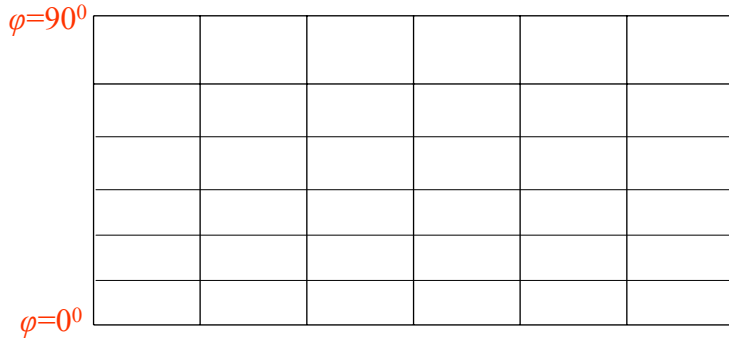
Άσκηση 3η

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$$\begin{matrix} x = a \lambda \\ y = M \end{matrix} \longrightarrow \text{Εξισώσεις παράλληλων ευθειών}$$

$$M = a (1 - e^2) [M_0 \varphi - M_2 \sin 2\varphi + M_4 \sin 4\varphi - M_6 \sin 6\varphi]$$

$$\left\{ \begin{array}{l} dx = a d\lambda \rightarrow \text{όταν } d\lambda \text{ σταθερό} \rightarrow dx = \text{σταθερό} \rightarrow \left\{ \begin{array}{l} \text{μεσημβρινοί} \\ \text{ισαπέχουν} \end{array} \right. \\ dy = dM \rightarrow \text{όταν } d\varphi \text{ σταθερό} \rightarrow dM = f(\varphi) \rightarrow \text{παράλληλοι?} \end{array} \right.$$

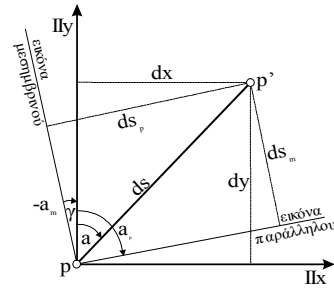
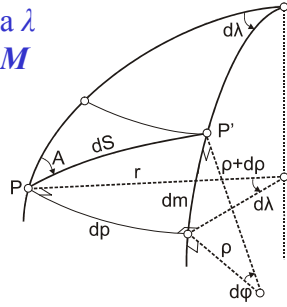


Μεταβολή του μεγέθους των ακτίνων καμπυλότητας ρ , N και R_G με το πλάτος

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$$x = a \lambda$$

$$y = M$$

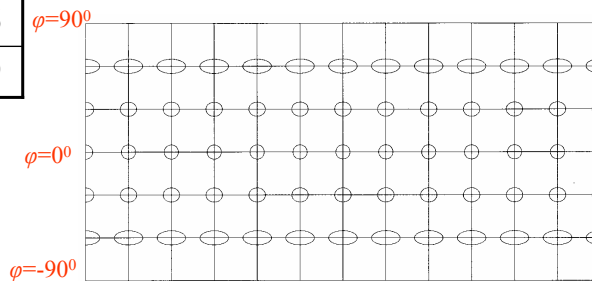
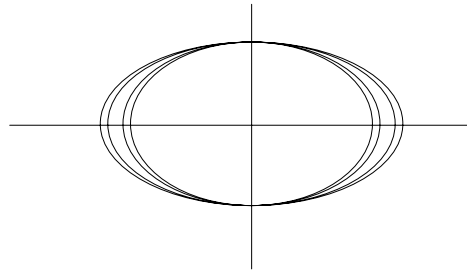


$$m_m = \frac{ds_m}{dm} = \frac{dy}{dM} = \frac{dM}{dM} = 1,$$

$$m_p = \frac{ds_p}{dp} = \frac{dx}{N \cos \varphi d\lambda} = \frac{a d\lambda}{\frac{a}{\sqrt{1-e^2 \sin^2 \varphi}} \cos \varphi d\lambda} = \frac{\sqrt{1-e^2 \sin^2 \varphi}}{\cos \varphi}.$$

$$e = \sqrt{2f - f^2}. \quad f = (a-b)/a$$

$O+E$	m_m	m_p
2	1	1,15
5	1	1,16
15	1	1,18
20	1	1,20
30	1	1,23
40	1	1,26
45	1	1,29



Οι ελλείψεις παραμόρφωσης της Ορθής Κυλινδρικής
Ισαπέχουσας Προβολής