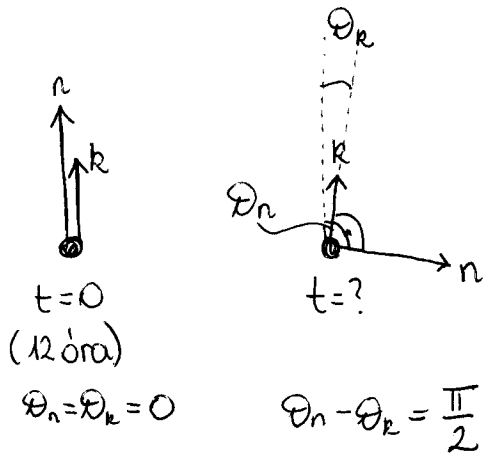


6.)



$$\vartheta = \frac{\beta}{2} t^2 + \omega_0 t + \vartheta_0$$

$$\vartheta = \omega t \quad (\beta = 0 \text{ e } \vartheta_0 = 0)$$

$$\vartheta_n - \vartheta_k = \omega_n t - \omega_k t = (\omega_n - \omega_k) t = \frac{\pi}{2}$$

$$\omega_n = \frac{2\pi}{3600s} = \frac{\pi}{1800s}$$

$$\omega_k = \frac{2\pi}{12 \cdot 3600s} = \frac{\pi}{21600s}$$

$$\left( \frac{\pi}{1800} - \frac{\pi}{21600} \right) t = \frac{\pi}{2}$$

$$\frac{11}{21600} t = \frac{1}{2}$$

$$t = \frac{21600}{22} s = 981,8s = \underline{16p21,8s} \text{ (12:00 után)}$$