

Λύση

$$16 \times \omega_A \text{ ο} \tilde{\omega} \quad S_A = S_B + 2 \cdot 2\pi R \Rightarrow$$

$$U_A t = U_B t + 4\pi R \Rightarrow$$

$$(U_A - U_B)t = 4\pi R \Rightarrow$$

$$\left(\frac{2\pi R}{T_A} - \frac{2\pi R}{T_B} \right) t = 4\pi R \Rightarrow 2 \left(\frac{1}{T_A} - \frac{1}{T_B} \right) t = 4 \Rightarrow$$

$$t = \frac{2}{\frac{1}{T_A} - \frac{1}{T_B}} \Rightarrow t = \frac{2}{\frac{1}{2} - \frac{1}{4}} \Rightarrow t = 8 \text{ min.}$$