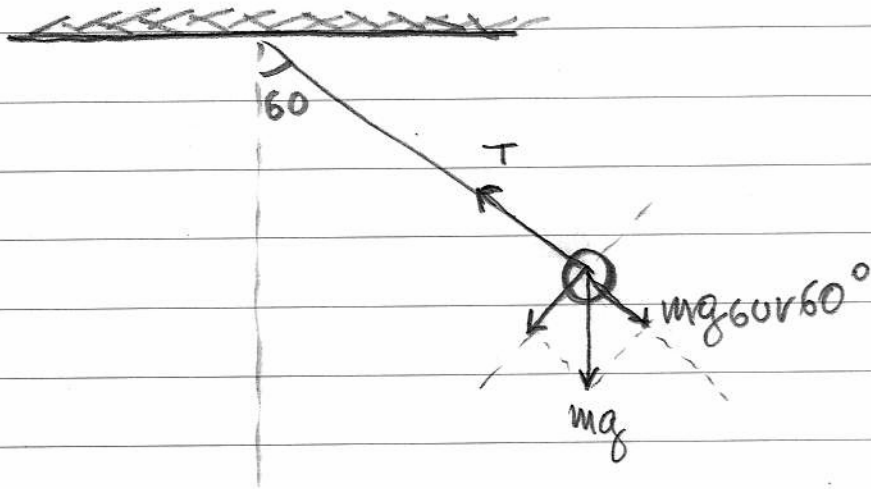


Λύση.



$$a) a_k = \frac{v^2}{R} = \frac{4}{1} = 4 \text{ m/s}^2$$

$$b) F_k = \sum F = T - mg \cos 60^\circ \Rightarrow T = F_k + mg \cos 60^\circ \Rightarrow$$

$$T = m a_k + mg \cos 60^\circ \Rightarrow T = m (a_k + g \cos 60^\circ) \Rightarrow$$

$$T = 2 \left( 4 + 10 \cdot \frac{1}{2} \right) \Rightarrow T = 18 \text{ N}$$