



What is the tension in rope 1 (in N) if the $\theta = 30^{\circ}$?

$$(F_{net})_{x} = T_{2} - T_{1} \cos \theta = m \alpha_{x} = 0$$

$$\int_{1} 8m\theta = mf$$

$$T_1 = \frac{m_s}{8M0}$$

$$= \frac{5.9.8}{8M30^\circ}$$