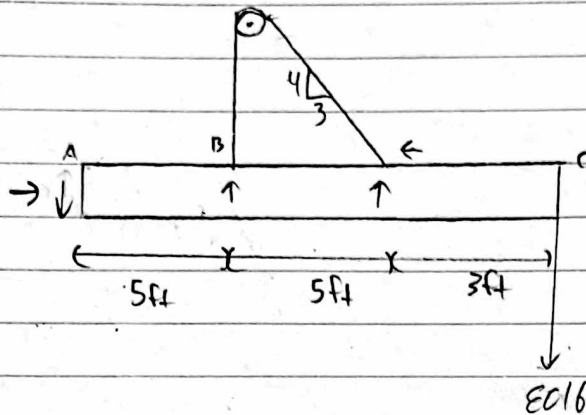


Solutions: 21-5-5.4-MK-02



$$\sum M_A = 0 = T(5) + T\left(\frac{4}{5}\right)(10\text{ ft}) - (80\text{ lb})(13\text{ ft})$$

$$0 = T(5 + 8) - (80\text{ lb})(13\text{ ft})$$

$$T = \frac{(80\text{ lb})(13\text{ ft})}{13\text{ ft}} \Rightarrow T = 80\text{ lb}$$

$$\sum F_x = A_x - \left(\frac{3}{5}\right)(80\text{ lb}) \Rightarrow A_x = 48\text{ lb}$$

$$\sum F_y = 0 = -A_y + 80\text{ lb} + \left(\frac{4}{5}\right)(80\text{ lb}) - 80\text{ lb}$$

$$A_y = 64\text{ lb}$$