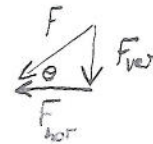
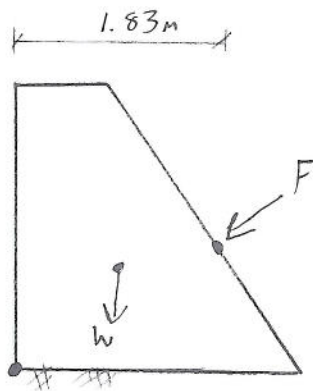


(not to scale)



$$F = 64.8 \text{ kN}$$

$$\theta = 36.4^\circ$$

$$\Rightarrow F_{\text{hor}} = 52.1 \text{ kN}$$

$$MA = 1.03 \text{ m}$$

$$M_{\text{hor}} = 53.7 \text{ kN}\cdot\text{m} \quad \uparrow$$

$$F_{\text{ver}} = 38.5 \text{ kN}$$

$$MA = 1.83 \text{ m}$$

$$M_{\text{ver}} = 70.5 \text{ kN}\cdot\text{m} \quad \downarrow$$

$$W = 127.5 \text{ kN}$$

$$MA = 0.94 \text{ m}$$

$$M_w = 119.9 \text{ kN}\cdot\text{m} \quad \downarrow$$

$$M_F = (70.5 - 53.7) = 16.8 \text{ kN}\cdot\text{m} \quad \downarrow$$

$$FS = \frac{\text{resisting moments}}{\text{overturn moments}}$$

$$= \frac{70.5 + 119.9}{53.7} = 3.5$$

$$\text{OR } FS = \frac{16.8 + 119.9}{0} = \text{undef.}$$