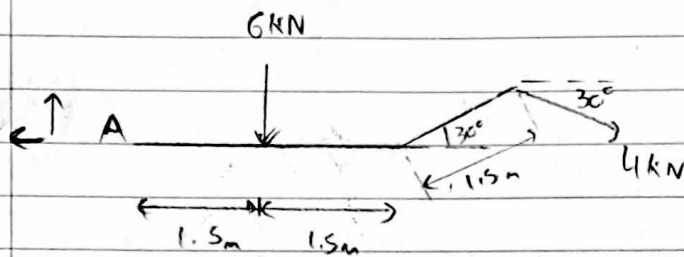


Solutions: 21-5-5.4-MK-03



$$\sum F_x = 0 \quad 4 \cos 30^\circ - A_x$$

$$A_x = 4 \cos 30^\circ = 3.46 \text{ kN}$$

$$A_x = 3.46 \text{ kN}$$

$$\sum F_y = 0 \quad A_y - 6 - 4 \sin 30^\circ$$

$$A_y = 6 + 4 \sin 30^\circ$$

$$A_y = 8 \text{ kN}$$

$$+\circlearrowleft \sum M_A = 0 = M_A - (6 \text{ kN})(1.5 \text{ m}) - (4 \cos 30^\circ)(1.5 \sin 30^\circ) - (4 \sin 30^\circ)(1.5 \cos 30^\circ + 3)$$

$$M_A = (6 \text{ kN})(1.5 \text{ m}) + (4 \cos 30^\circ)(1.5 \sin 30^\circ) + (4 \sin 30^\circ)(1.5 \cos 30^\circ + 3)$$

$$M_A = 20.196 \text{ kNm}$$