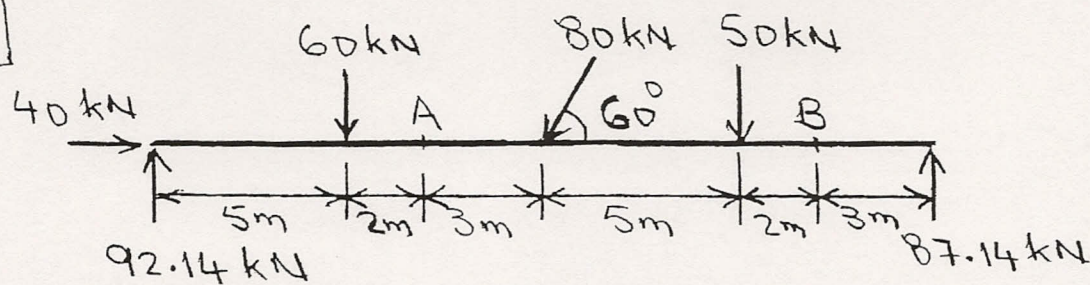


5.1



$$Q_A = \underline{-40 \text{ kN}}$$

$$S_A = 92.14 - 60 = \underline{32.14 \text{ kN}}$$

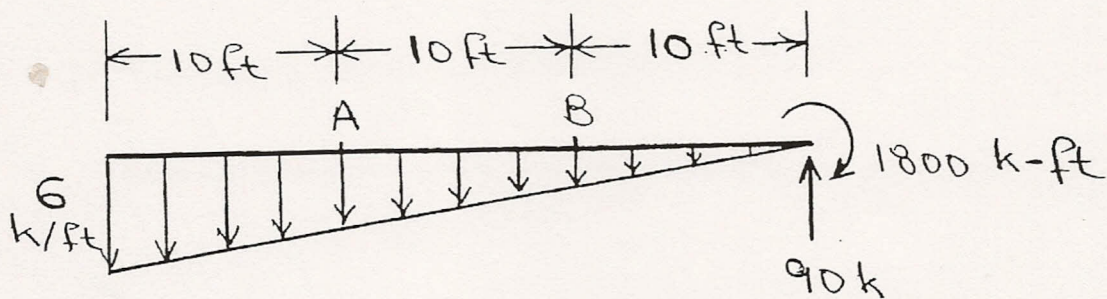
$$M_A = 92.14(7) - 60(2) = \underline{524.98 \text{ kN}\cdot\text{m}}$$

$$Q_B = \underline{0}$$

$$S_B = \underline{-87.14 \text{ kN}}$$

$$M_B = 87.14(3) = \underline{261.42 \text{ kN}\cdot\text{m}}$$

5.6



$$Q_A = \underline{0}$$

$$S_A = -\frac{(6+4)}{2}(10) = \underline{-50 \text{ k}}$$

$$M_A = -4(10)5 - \frac{1}{2}(2)(10)\left(\frac{20}{3}\right) = \underline{-266.67 \text{ k}\cdot\text{ft}}$$

$$Q_B = \underline{0}$$

$$S_B = -\frac{(6+2)}{2}(20) = \underline{-80 \text{ k}}$$

$$M_B = -2(20)10 - \frac{1}{2}(4)(20)\left(\frac{40}{3}\right) = \underline{-933.33 \text{ k}\cdot\text{ft}}$$