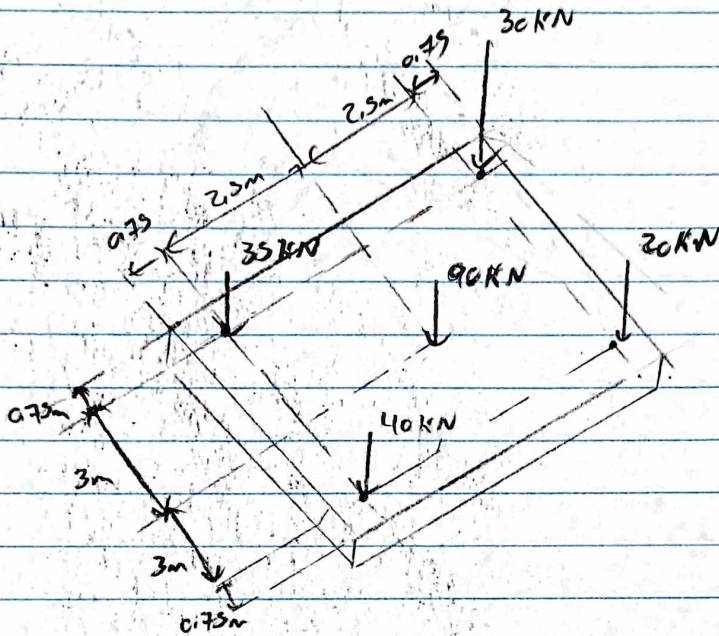


Solutions: 21-5-4.8-MK-07



$$F_R = -30 \text{ kN} - 20 \text{ kN} - 90 \text{ kN} - 35 \text{ kN} - 40 \text{ kN} \Rightarrow F_R = -215 \text{ kN}$$

$$y \rightarrow \Sigma M_x = -215(y) = -35(0.75) - 90(3.75) - 20(6.75) - 40(6.75)$$

$$y = 3.68 \text{ m}$$

$$x \rightarrow \Sigma M_y = 215(x) = 30(0.75) + 20(0.75) + 90(3.75) + 35(5.75) + 40(5.75)$$

$$x = 3.54 \text{ m}$$