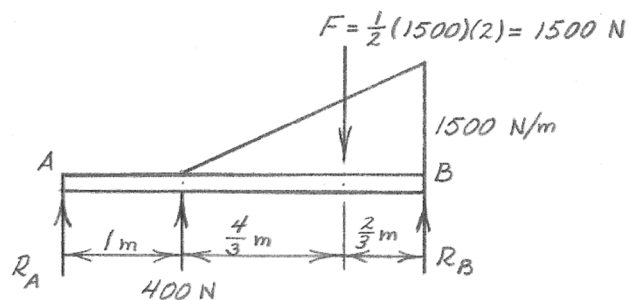


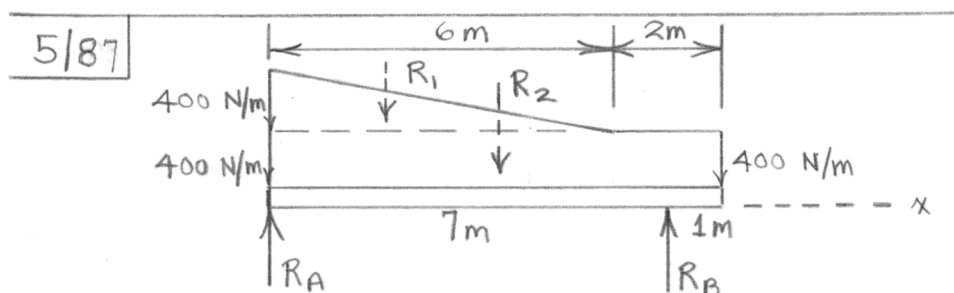
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$$\begin{aligned} \textcircled{+}\sum M_B = 0: & 400(2) + 3R_A - 1500\left(\frac{2}{3}\right) = 0, & R_A = 66.7 \text{ N} \\ +\uparrow \sum F = 0: & 66.7 + 400 - 1500 + R_B = 0, & R_B = 1033 \text{ N} \end{aligned}$$

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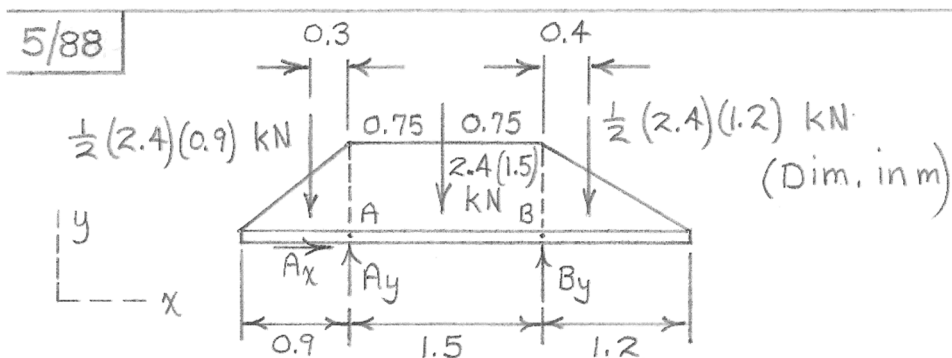
$$R_1 = \frac{1}{2}(400)(6) = 1200 \text{ N} @ \bar{x}_1 = \frac{1}{3}(6) = 2 \text{ m}$$

$$R_2 = 400(8) = 3200 \text{ N} @ \bar{x}_2 = \frac{1}{2}(8) = 4 \text{ m}$$

$$\circlearrowleft + \sum M_A = 0: R_B(7) - 1200(2) - 3200(4) = 0, \underline{R_B = 2170 \text{ N}}$$

$$+\uparrow \sum F = 0: R_A - 1200 - 3200 + 2170 = 0, \underline{R_A = 2230 \text{ N}}$$

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$$\sum M_A = 0 : 1.08(0.3) - 3.6(0.75) - 1.44(1.9) + B_y(1.5) = 0$$

$$B_y = 3.41 \text{ kN}$$

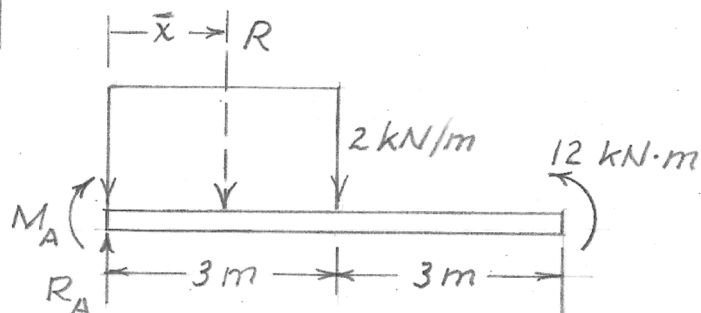
$$\sum F_y = 0 : A_y + 3.41 - 1.08 - 3.6 - 1.44 = 0$$

$$A_y = 2.71 \text{ kN}$$

$$\sum F_x = 0 : A_x = 0$$

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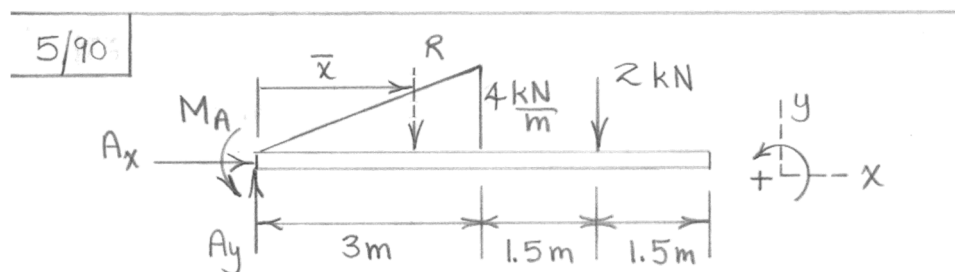


$$R = 2(3) = 6 \text{ kN} @ \bar{x} = 1.5 \text{ m}$$

$$\sum M_A = 0: -M_A - 6(3/2) + 12 = 0, \quad M_A = 3 \text{ kN}\cdot\text{m}$$

$$\sum F = 0: R_A - 6 = 0, \quad R_A = 6 \text{ kN}$$

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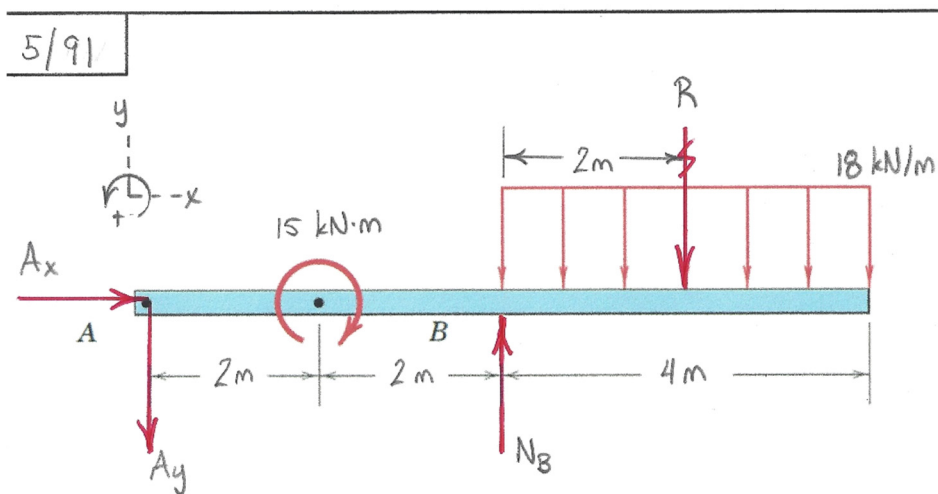
$$R = \frac{1}{2}(3)(4) = 6 \text{ kN} @ \bar{x} = \frac{2}{3}(3) = 2 \text{ m}$$

$$\sum M_A = 0: M_A - 6(2) - 2(4.5) = 0, \quad \underline{M_A = 21 \text{ kN}\cdot\text{m}}$$

$$\sum F_y = 0: A_y - 6 - 2 = 0, \quad \underline{A_y = 8 \text{ kN}}$$

$$\sum F_x = 0: \underline{A_x = 0}$$

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$$R = 18(4) = 72 \text{ kN}$$

$$\begin{cases} \sum F_x = 0: A_x = 0 \\ \sum F_y = 0: -A_y + N_B - R = 0 \\ \sum M_A = 0: 4N_B - 6R - 15 = 0 \end{cases} \rightarrow \begin{cases} A_y = 39.8 \text{ kN} \downarrow \\ N_B = 111.8 \text{ kN} \uparrow \end{cases}$$

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