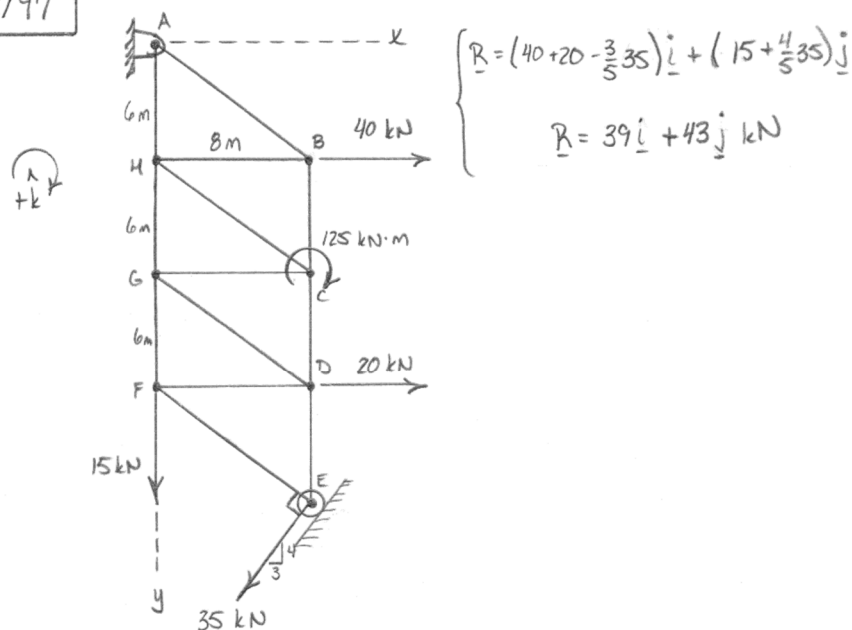


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$$\underline{M}_A = [-40(6) - 20(18) + 125 + 35(10) + \frac{3}{5}35(10)]\underline{k} \rightarrow \underline{M}_A = 253 \underline{k} \text{ kN}\cdot\text{m}$$

$$\begin{cases} \underline{r} \times \underline{R} = \underline{M}_A \rightarrow (x\underline{i} + y\underline{j}) \times (39\underline{i} - 43\underline{j}) = 253\underline{k} \\ \underline{k}: 43x - 39y = 253 \rightarrow y = 1.103x - 6.49 \text{ (m)} \end{cases}$$

$$\begin{cases} \underline{x}\text{-Axis: } y = 0 = 1.103x - 6.49 \rightarrow x = 5.88 \text{ m so } (5.88, 0) \text{ m} \\ \underline{y}\text{-Axis: } x = 0 \rightarrow y = -6.49 \text{ m so } (0, -6.49) \text{ m} \end{cases}$$