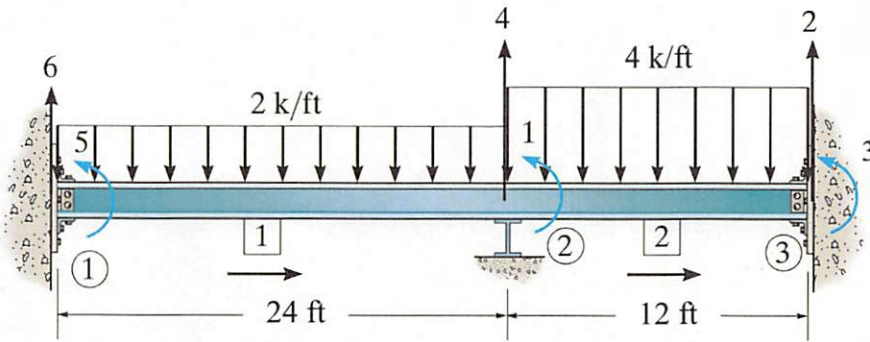
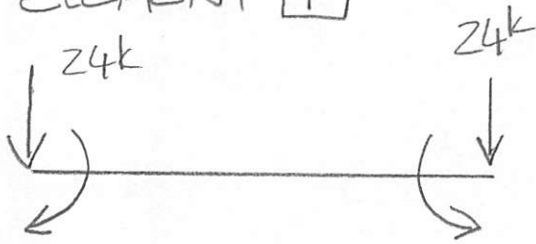


Determine the moments at ① and ③. Assume ② is a roller and ① and ③ are fixed. Also, EI is constant.

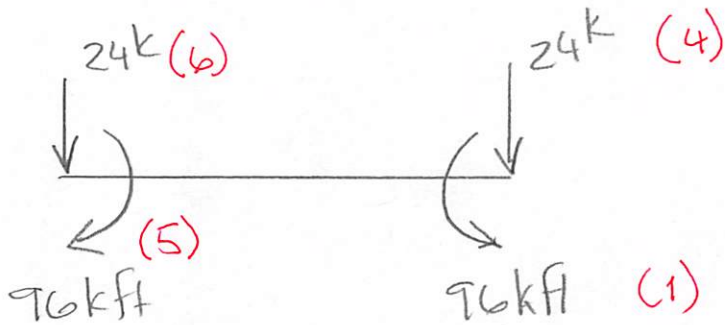


FEM

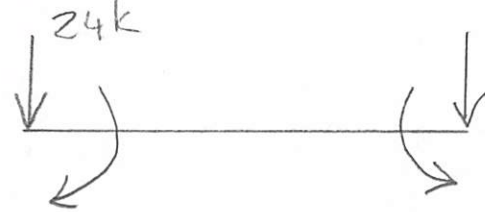
ELEMENT [1]



$$\frac{WL^2}{12} = \frac{2 \text{ k/ft} (24 \text{ ft})^2}{12} = 96 \text{ kft}$$



ELEMENT [2]



$$\frac{WL^2}{12} = \frac{4 \text{ k/ft} (12 \text{ ft})^2}{12} = 48 \text{ kft}$$

