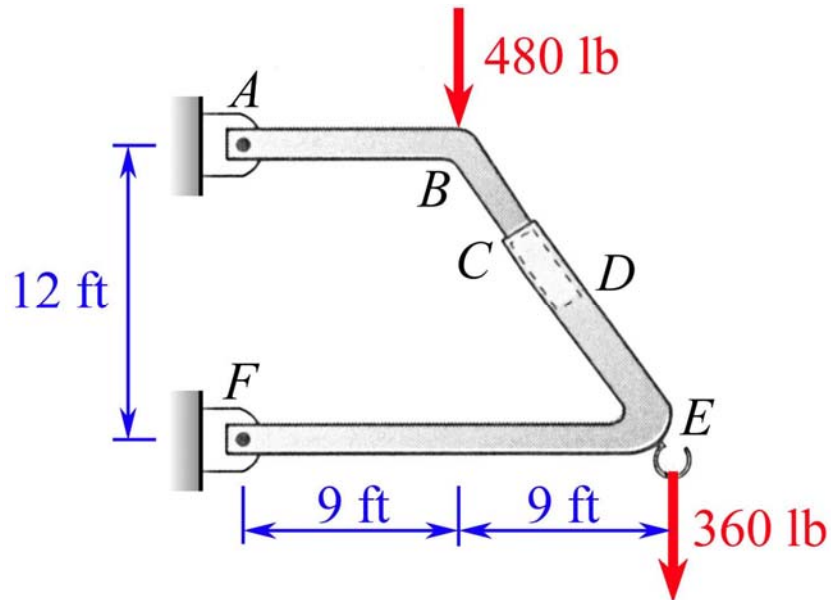


Quiz #8'. Two bent pipes $ABCD$ and $CDEF$ are shown. Neglecting the friction between them in the portion CD , determine the reactions \mathbf{A} and \mathbf{F} at the hinge supports A and F , respectively.



FBD for entire system ②

FBD for upper pipe *or* lower pipe ②

$$\mathbf{A} = -900\mathbf{i} - 195\mathbf{j}\text{ lb} \quad \text{③}$$

$$\mathbf{F} = 900\mathbf{i} + 1035\mathbf{j}\text{ lb} \quad \text{③}$$