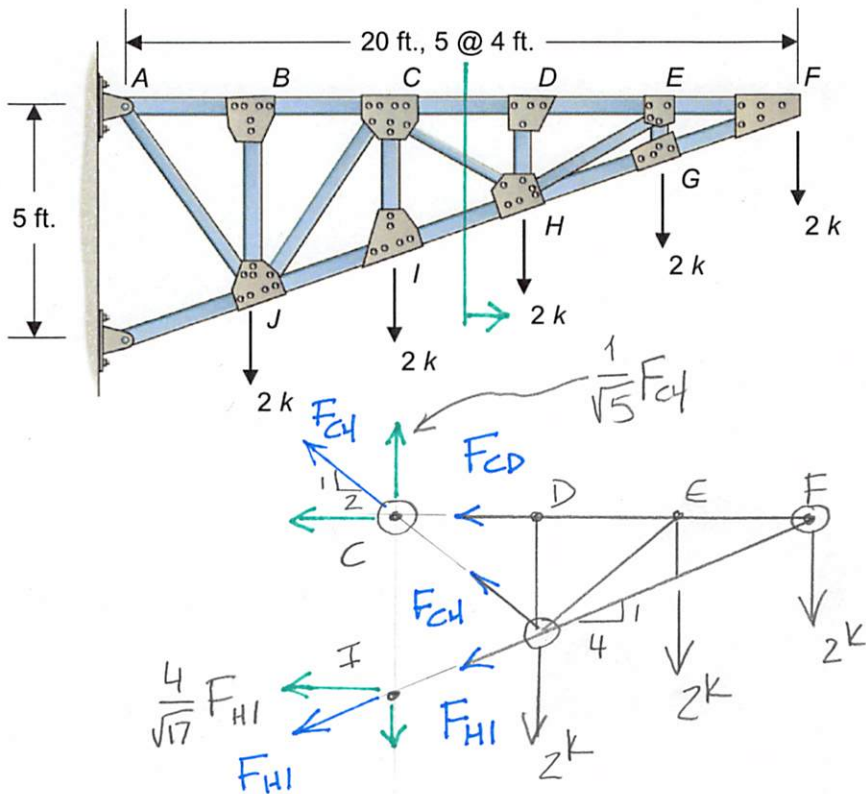


Determine the forces in members CD, CH, and HI.



$$\sum M_C = 0 = -\frac{4}{\sqrt{17}} F_{HI} (3 \text{ ft}) - 2 \text{ k} (4 \text{ ft} + 8 \text{ ft} + 12 \text{ ft})$$

$$\underline{\underline{F_{HI} = -16.49 \text{ k}}}$$

$$\sum M_H = 0 = F_{CD} (2 \text{ ft}) - 2 \text{ k} (4 \text{ ft} + 8 \text{ ft})$$

$$\underline{\underline{F_{CD} = 12 \text{ k}}}$$

$$\sum M_F = 0 = -\frac{1}{\sqrt{5}} F_{CH} (12 \text{ ft}) + 2 \text{ k} (4 \text{ ft} + 8 \text{ ft})$$

$$\underline{\underline{F_{CH} = 4.47 \text{ k}}}$$