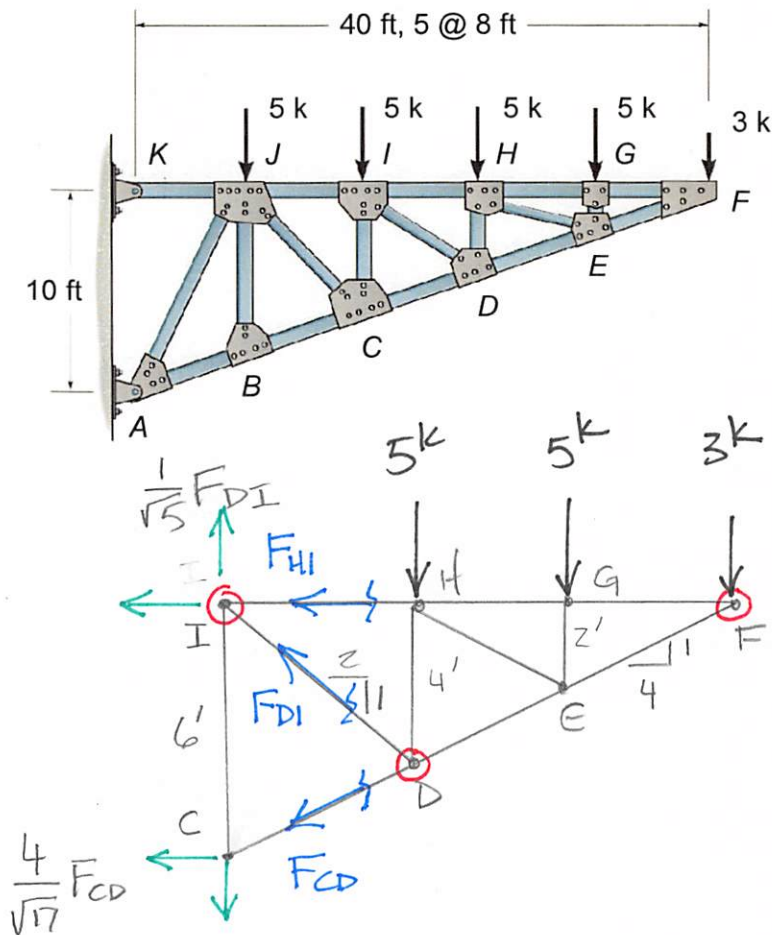


Determine the forces in members CD , DI , and HI .



$$\sum M_D = 0 = F_{HI}(4') - 5k(8') - 3k(16') \quad \underline{\underline{F_{HI} = 22k}}$$

$$\sum M_I = 0 = -\frac{4}{\sqrt{17}}F_{CD}(6') - 5k(8' + 16') - 3k(24')$$

$$\underline{\underline{F_{CD} = -32.98k}}$$

$$\sum M_F = 0 = -\frac{1}{5}F_{DI}(24') + 5k(8' + 16') \quad \underline{\underline{F_{DI} = 11.18k}}$$