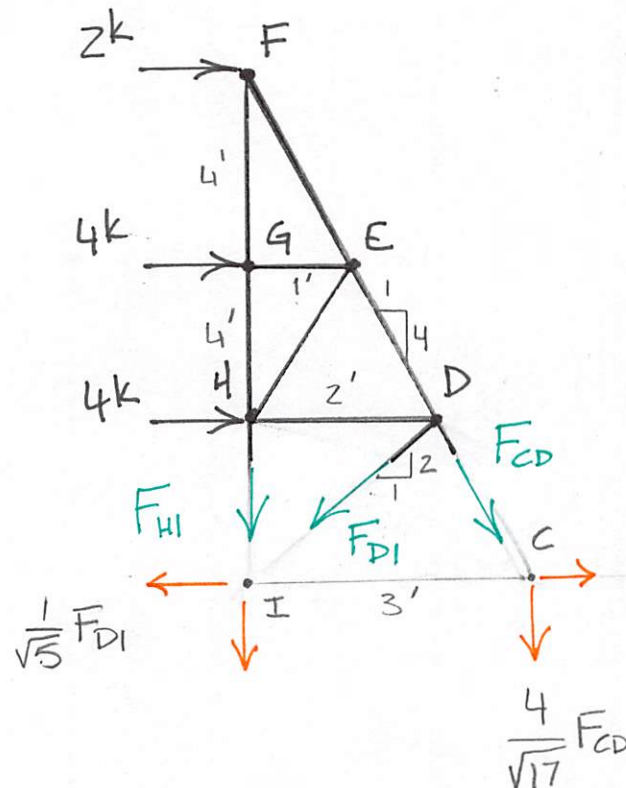
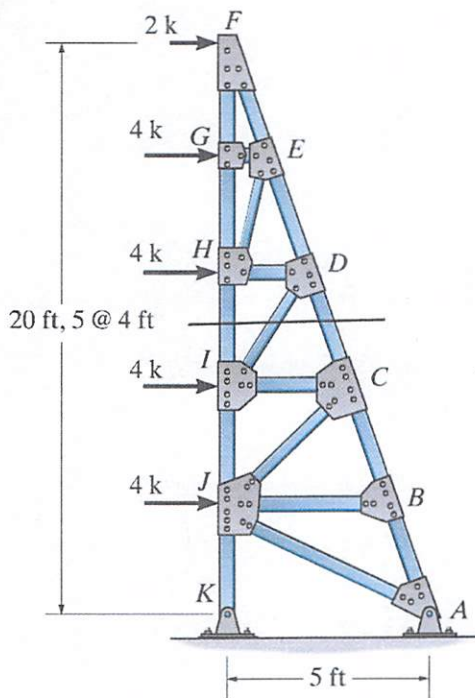


Determine the forces in members CD, DI, and HI.



$$\sum M_D = 0 = F_{HI}(2') - 4k(4') - 2k(8') \quad \underline{\underline{F_{HI} = 16k}}$$

$$\sum M_I = 0 = -\frac{4}{\sqrt{17}} F_{CD}(3') - 4k(4' + 8') - 2k(12') \quad \underline{\underline{F_{CD} = -24.74k}}$$

$$\sum M_F = 0 = -\frac{1}{\sqrt{5}} F_{DI}(12') + 4k(4' + 8') \quad \underline{\underline{F_{DI} = 8.94k}}$$