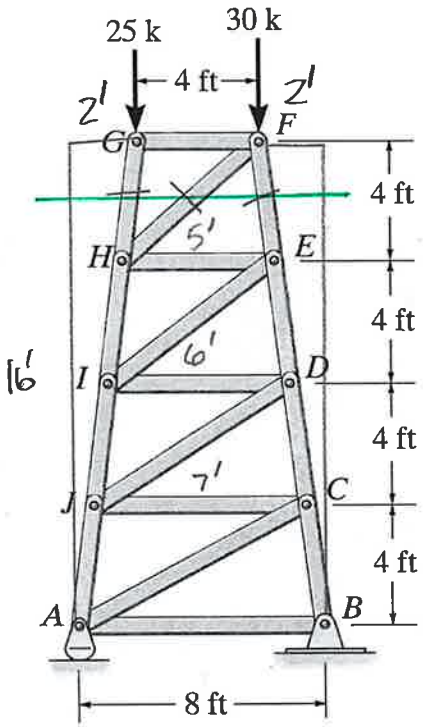
Problem 3c-8: Determine the forces in members *EF*, *FH*, and *GH*.

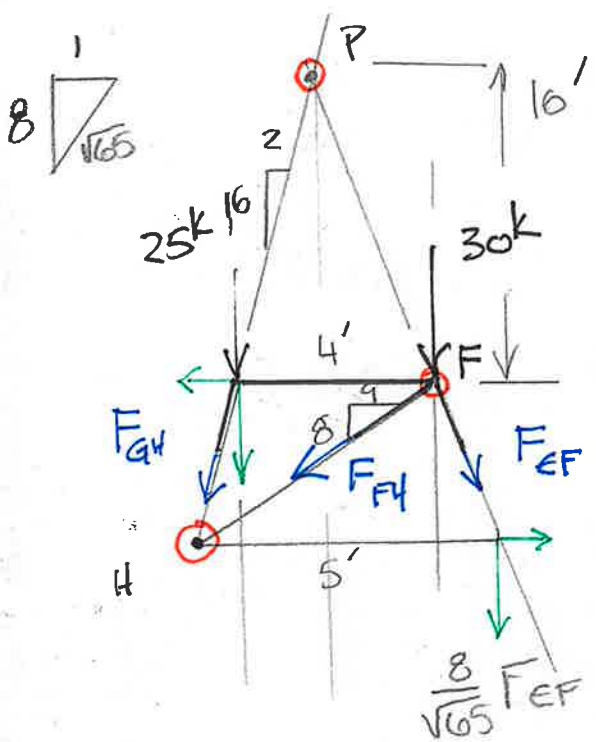


$$\circlearrowleft +\Sigma M_F = 0 = -\frac{8}{\sqrt{65}} F_{GH}(4') + 25^k(4')$$

$$F_{GH} = -25.19^k$$

$$\circlearrowleft +\Sigma M_H = 0 = -\frac{8}{\sqrt{65}} F_{EF}(5') - 25^k(1/2') - 30^k(4.5')$$

$$F_{EF} = -29.73^k$$



$$\frac{9}{8\ \sqrt{145}} \quad \rightarrow +\Sigma F_x = 0 = -\frac{1}{\sqrt{65}} F_{GH} + \frac{1}{\sqrt{65}} F_{EF} - \frac{9}{\sqrt{145}} F_{FH}$$

$$F_{FH} = -0.75^k$$