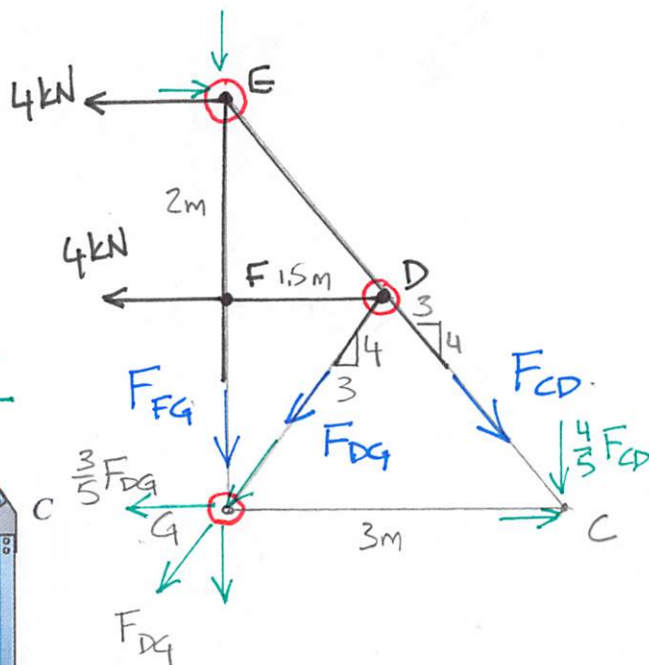
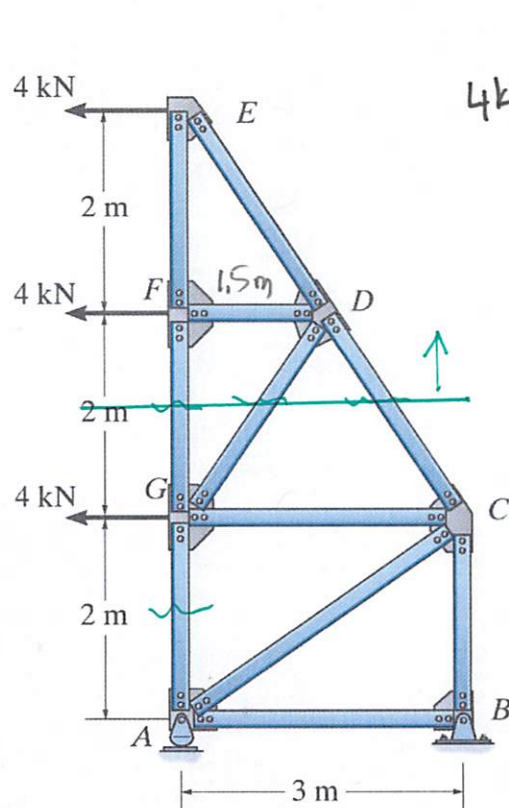


Problem 3c-3: Determine the forces in members FG , GD , CD , and GA .



$$\sum M_D = 0 = F_{FG}(1.5\text{m}) + 4\text{kN}(2\text{m})$$

$$F_{FG} = -5.33\text{ kN}$$

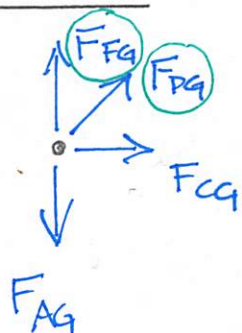
$$\sum M_G = 0 = -\frac{4}{5}F_{CD}(3\text{m}) + 4\text{kN}(2\text{m} + 4\text{m})$$

$$F_{CD} = 10\text{ kN}$$

$$\sum M_E = 0 = -\frac{3}{5}F_{DG}(4\text{m}) - 4\text{kN}(2\text{m})$$

$$F_{DG} = -3.33\text{ kN}$$

JOINT G



$$\sum F_y = 0 = F_{FG} + \frac{4}{5}F_{DG} - F_{AG}$$

$$F_{AG} = -8\text{ kN}$$