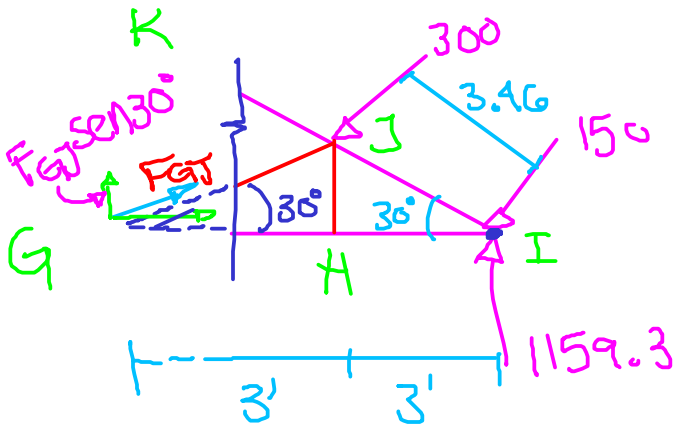


Reacciones

$$\sum F_y = -150 \cos 30(2) - 500 - 300 \cos 30 = 2R$$

$$R = 1159.3 \text{ lb}$$

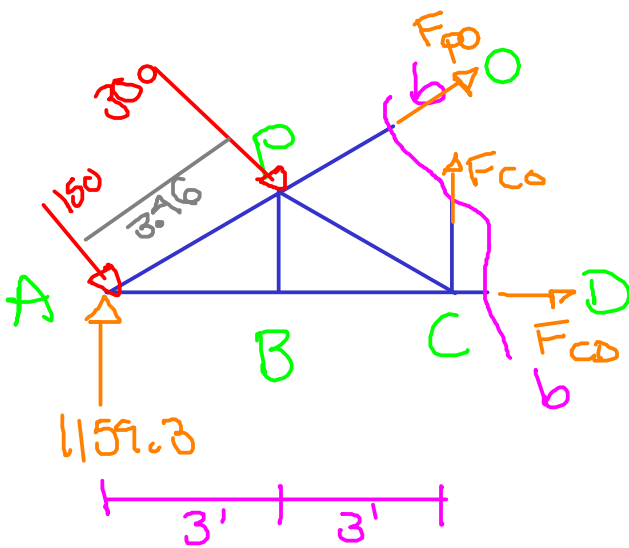
Obtener Fuerza Axial en GJ & CO.



$$\cos 30^\circ = \frac{3'}{h} \quad h = 3' / \cos 30^\circ = 3.46$$

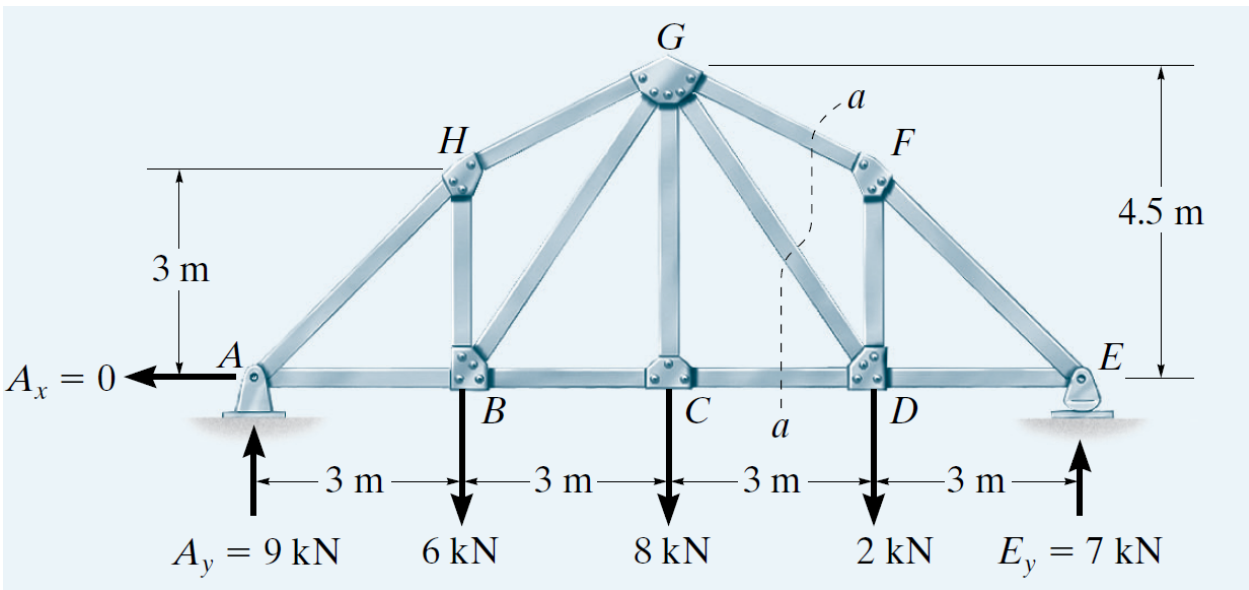
$$\sum M_I = 0 = F_{GJ} \sin 30^\circ (6) - 300(3.46) = 0$$

$$F_{GJ} = \underline{346 \text{ lb. (C)}}$$



$$\sum M_A = 300(3.46) - F_{CO} (6) = 0$$

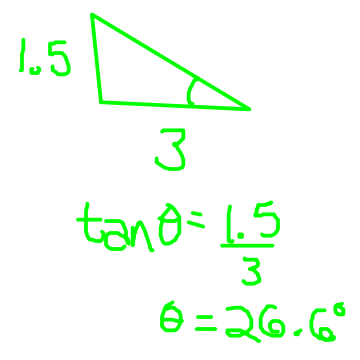
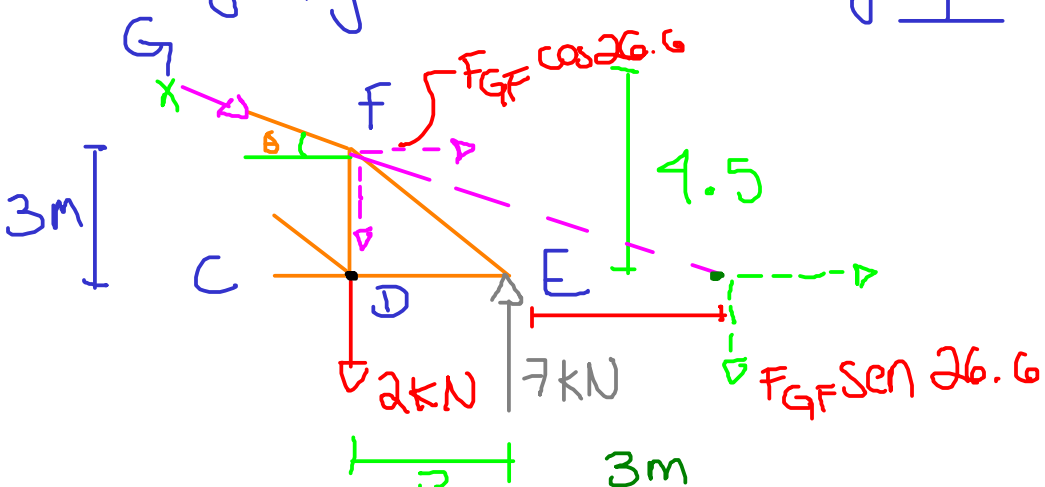
$$F_{CO} = \underline{173 \text{ (T)}}$$



F_{GF} & F_{GD}

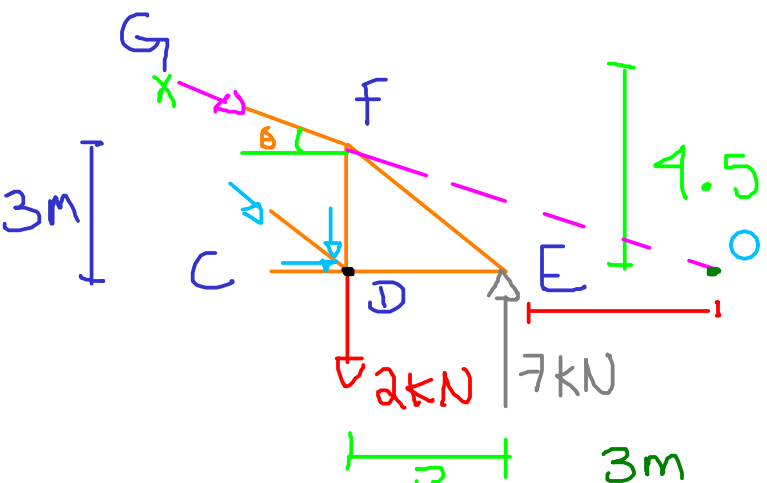
$$\sum M_A = 6(3) + 8(6) + 2(9) - E_y(12) = 0 \rightarrow E_y = 7$$

$$\sum F_y = A_y - 6 - 8 - 2 + 7 = 0 \rightarrow A_y = 9$$

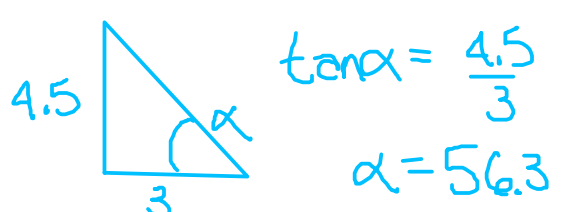


$$\sum M_D = 7(3) - 3 F_{GF} \cos 26.6 = 0 \quad F_{GF} = 7.8 \text{ (C)}$$

$$\sum M_C = 7(3) - 6 F_{GF} \sin 26.6 = 0 \quad F_{GF} = 7.8 \text{ (C)}$$



$$\sum M_O = 7(3) - 2(6) - F_{GD} \sin(56.3)(6) = 0 \quad F_{GD} = 1.8 \text{ (C)}$$



$$-F_{GD} \sin 56.3 - 7.8 \sin 26.6 - 2 + 7 = 0 \rightarrow F_{GD} = 1.8 \text{ (C)}$$