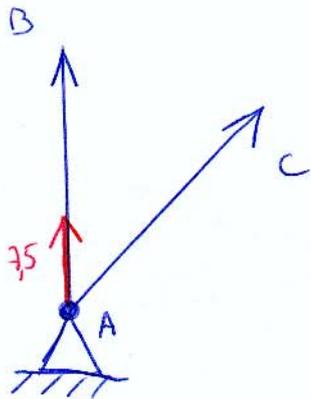


Nœud A



$$\sum F_x = 0 \Leftrightarrow F_{AC} \times \cos 47,1 = 0$$

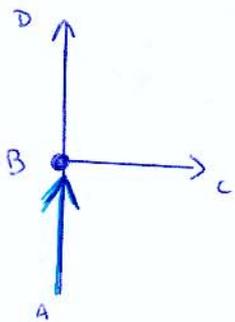
$$\boxed{F_{AC} = 0}$$

$$\sum F_y = 0 \Leftrightarrow F_{AB} + 7,5 + F_{AC} \cdot \sin 47,1 = 0$$

$$\boxed{F_{AB} = -7,5}$$

AB en Compression

Nœud B



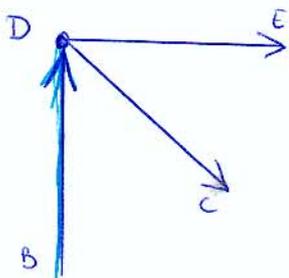
$$\sum F_x = 0 \Leftrightarrow \boxed{F_{BC} = 0}$$

$$\sum F_y = 0 \Leftrightarrow F_{AB} + F_{BD} = 0$$

$$\boxed{F_{BD} = -7,5}$$

BD en Compression

Nœud D



$$\sum F_y = 0 \Leftrightarrow F_{BD} - F_{DC} \times \sin 47,1 = 0$$

$$F_{DC} = \frac{7,5}{\sin 47,1}$$

$$\boxed{F_{DC} = 10,238}$$

DC en Traction

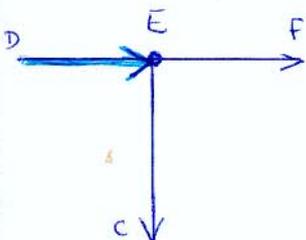
$$\sum F_x = 0 \Leftrightarrow F_{DE} + F_{DC} \times \cos 47,1 = 0$$

$$F_{DE} = -10,238 \times \cos 47,1$$

$$\boxed{F_{DE} = -6,969}$$

DE en Compression

Nœud E



$$\sum F_x = 0 \Leftrightarrow F_{DE} + F_{EF} = 0$$

$$F_{EF} = -F_{DE}$$

$$\boxed{F_{EF} = -6,969}$$

EF en Compression

$$\sum F_y = 0 \Leftrightarrow \boxed{F_{EC} = 0}$$