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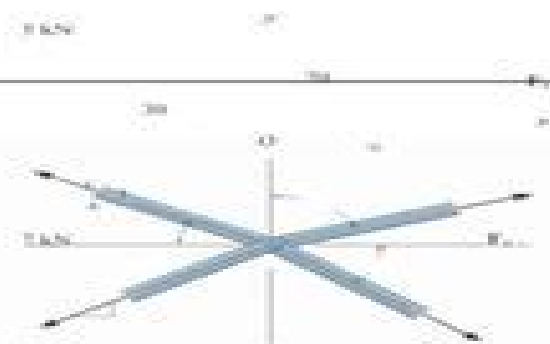
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3-11.

The members of a truss are pin connected at joint  $O$ . Determine the magnitudes of  $F_1$  and  $F_2$  for equilibrium. Set  $\alpha = 40^\circ$ .



## SOLUTION

$$\sum \rightarrow F_x = 0; \quad F_1 \sin 70^\circ + F_2 \sin 60^\circ - 5 \sin 30^\circ - \frac{4}{5}(7) = 0$$

$$0.9397F_2 + 0.5F_1 = 9.930$$

$$+\circlearrowleft F_y = 0; \quad F_2 \cos 30^\circ + 5 \sin 30^\circ - F_1 \sin 60^\circ - \frac{3}{5}(7) = 0$$

$$0.8660F_2 - 0.8660F_1 = 1.7$$

Solving:

$$F_2 = 9.60 \text{ kN}$$

$$F_1 = 1.83 \text{ kN}$$

Ans.

Ans.



# Hibbeler Dynamics Chapter 1 solutions

**CL Gary**



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