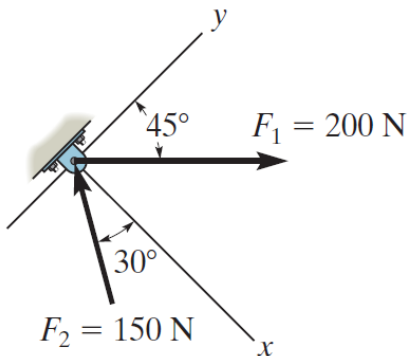


Problem 2-39

Determine the x and y components of \mathbf{F}_1 and \mathbf{F}_2 .

**Probs. 2-39/40****Solution**

Write each of the forces in component form with respect to the given xy -coordinate system.

$$\mathbf{F}_1 = 200 \langle \sin 45^\circ, \cos 45^\circ \rangle \text{ N} \approx \langle 141, 141 \rangle \text{ N}$$

$$\mathbf{F}_2 = 150 \langle -\cos 30^\circ, \sin 30^\circ \rangle \text{ N} \approx \langle -130, 75 \rangle \text{ N}$$