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6-4. Determine the force in each bar supporting of the 2000-N load. (Use the 30°-60°-90° triangle for the solution.)

Geometry from the geometry of the figure:  
 $\theta = \arctan\left(\frac{2}{1.5}\right) = 53^\circ$

Equation of Equilibrium: Applying the equation of equilibrium to the free-body diagram in Fig. (a):  
 $\sum F_x = 0: F_{BC} \cos 53^\circ - 2000 \sin 37^\circ = 0 \quad F_{BC} = 2000 \sin 37^\circ / \cos 53^\circ = 1400 \text{ N}$  Ans.  
 $\sum F_y = 0: 2000 \cos 37^\circ - F_{BC} \sin 53^\circ = 0 \quad F_{BC} = 2000 \cos 37^\circ / \sin 53^\circ = 1400 \text{ N}$  Ans.

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