

PROBLEM 2.19

Two structural members *A* and *B* are bolted to a bracket as shown. Knowing that both members are in compression and that the force is 10 kN in member *A* and 15 kN in member *B*, determine by trigonometry the magnitude and direction of the resultant of the forces applied to the bracket by members *A* and *B*.

SOLUTION

Using the force triangle and the laws of cosines and sines

We have

$$\gamma = 180^\circ - (40^\circ + 20^\circ) \\ = 120^\circ$$

Then

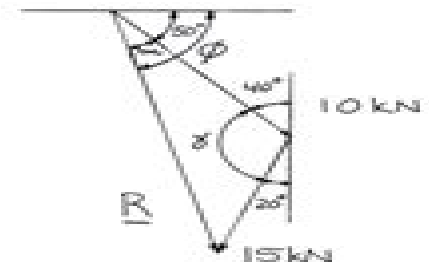
$$R^2 = (10 \text{ kN})^2 + (15 \text{ kN})^2 \\ - 2(10 \text{ kN})(15 \text{ kN})\cos 120^\circ \\ = 475 \text{ kN}^2 \\ R = 21.794 \text{ kN}$$

and

$$\frac{15 \text{ kN}}{\sin \alpha} = \frac{21.794 \text{ kN}}{\sin 120^\circ} \\ \sin \alpha = \left(\frac{15 \text{ kN}}{21.794 \text{ kN}} \right) \sin 120^\circ \\ = 0.59605 \\ \alpha = 36.588^\circ$$

Hence:

$$\phi = \alpha + 50^\circ = 86.588^\circ$$



$$R = 21.8 \text{ kN} \searrow 86.6^\circ$$

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