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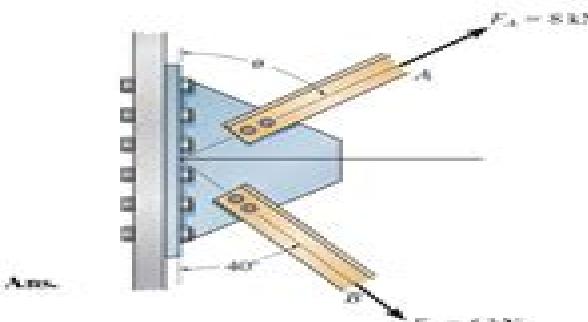
The plate is subjected to the two forces at *A* and *B* as shown. If $\theta = 60^\circ$, determine the magnitude of the resultant of these two forces and its direction measured clockwise from the horizontal.

SOLUTION

Parallelogram Law: The parallelogram law of addition is shown in Fig. *a*.

Trigonometry: Using law of cosines (Fig. *b*), we have

$$\begin{aligned}F_R &= \sqrt{8^2 + 6^2 - 2(8)(6) \cos 100^\circ} \\&= 10.80 \text{ kN} = 10.8 \text{ kN}\end{aligned}$$



Ans.

The angle θ can be determined using law of sines (Fig. *b*).

$$\frac{\sin \theta}{6} = \frac{\sin 100^\circ}{10.80}$$

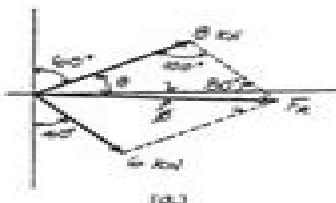
$$\sin \theta = 0.5470$$

$$\theta = 33.16^\circ$$

Thus, the direction ϕ of F_R measured from the *x* axis is

$$\phi = 33.16^\circ - 30^\circ = 3.16^\circ$$

Ans.



Ans.



Ans.

Mechanic Of Material Riley Manual

**William Franklin Riley, Loren W.
Zachary**

Mechanic Of Material Riley Manual:

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