

2-15.

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

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

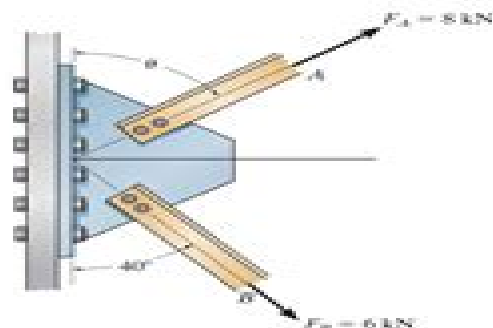
The angle θ can be determined using law of sines (Fig. b).

$$\begin{aligned} \frac{\sin \theta}{6} &= \frac{\sin 100^\circ}{10.80} \\ \sin \theta &= 0.5470 \\ \theta &= 33.16^\circ \end{aligned}$$

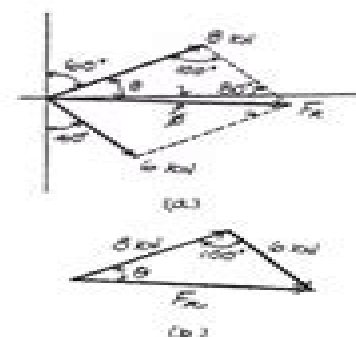
Thus, the direction ϕ of F_R measured from the x axis is

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

Ans.



Ans.



Statics And Mechanics Of Materials Solutions Manual Hibbeler

Joseph F. Shelley



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