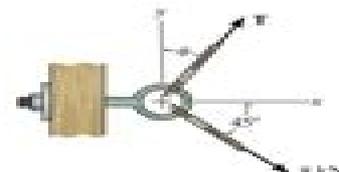


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2-2. If $\theta = 60^\circ$ and $F = 5 \text{ kN}$, determine the magnitude of the resultant force acting on the eyebolt and its direction measured clockwise from the positive x axis.



The parallelogram law of addition and the triangular rule are shown in Figs. *a* and *b*, respectively.

Applying the law of cosines to Fig. *b*,

$$F_R = \sqrt{5^2 + 8^2 - 2(5)(8)\cos 105^\circ} \\ = 10.47 \text{ kN} = 10.5 \text{ kN}$$

Ans.

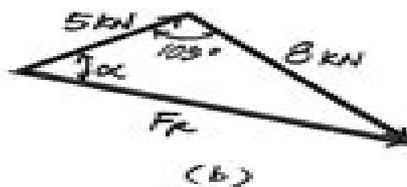
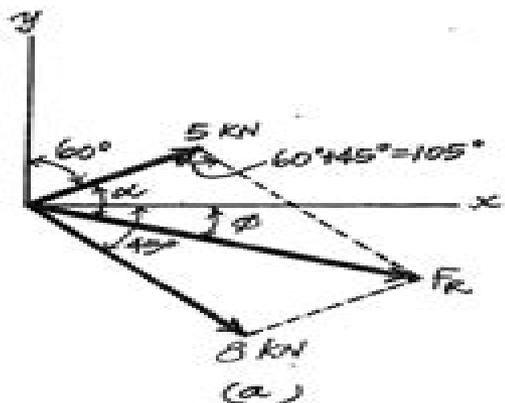
Applying the law of sines to Fig. *b* and using this result, yields

$$\frac{\sin \alpha}{8} = \frac{\sin 105^\circ}{10.47} \quad \alpha = 47.54^\circ$$

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

$$\phi = \alpha - 30^\circ = 47.54^\circ - 30^\circ = 17.5^\circ$$

Ans.



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Joseph F. Shelley



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