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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,

$$F_R = \sqrt{6^2 + 8^2 - 2(6)(8)\cos 75^\circ} \\ = 8.669 \text{ kN} = 8.67 \text{ kN}$$

Ans.

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

$$\frac{\sin \alpha}{8} = \frac{\sin 75^\circ}{8.669} \quad \alpha = 63.05^\circ$$

Thus, the direction angle ϕ of F_R measured clockwise from the positive x axis is $\phi = \alpha - 60^\circ = 63.05^\circ - 60^\circ = 3.05^\circ$

Ans.

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