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5-4. If $\alpha = 30^\circ$ and $F = 4$ kN, determine the magnitude of the resultant force along the x-axis and its direction measured clockwise from the positive x axis.

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

Applying the law of cosines (Fig. a),

$$F_R = \sqrt{F_1^2 + F_2^2 - 2F_1F_2 \cos 75^\circ}$$
$$= \sqrt{6.00^2 + 4^2 - 2(6.00)(4) \cos 75^\circ}$$

Ans.

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

$$\frac{\sin \theta}{6.67} = \frac{\sin 75^\circ}{6.00}$$
$$\theta = 43.0^\circ$$

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

$$\theta = 43^\circ = 43.0^\circ = 43^\circ = 43.0^\circ$$

Ans.

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