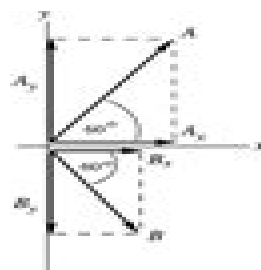


**1.35. IDENTIFY:** Vector addition problem.  $\vec{A} + \vec{B} = \vec{A} + (-\vec{B})$ .

**SET UP:** Find the  $x$ - and  $y$ -components of  $\vec{A}$  and  $\vec{B}$ . Then the  $x$ - and  $y$ -components of the vector sum are calculated from the  $x$ - and  $y$ -components of  $\vec{A}$  and  $\vec{B}$ .

**EXECUTE:**



$$A_x = A \cos(60.0^\circ)$$

$$A_x = (2.80 \text{ cm}) \cos(60.0^\circ) = +1.40 \text{ cm}$$

$$A_y = A \sin(60.0^\circ)$$

$$A_y = (2.80 \text{ cm}) \sin(60.0^\circ) = +2.425 \text{ cm}$$

$$B_x = B \cos(-60.0^\circ)$$

$$B_x = (1.90 \text{ cm}) \cos(-60.0^\circ) = +0.95 \text{ cm}$$

$$B_y = B \sin(-60.0^\circ)$$

$$B_y = (1.90 \text{ cm}) \sin(-60.0^\circ) = -1.645 \text{ cm}$$

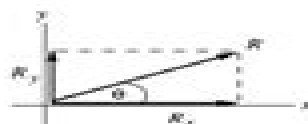
Note that the signs of the components correspond to the directions of the component vectors.

Figure 1.35a

(a) Now let  $\vec{R} = \vec{A} + \vec{B}$ .

$$R_x = A_x + B_x = +1.40 \text{ cm} + 0.95 \text{ cm} = +2.35 \text{ cm}.$$

$$R_y = A_y + B_y = +2.425 \text{ cm} - 1.645 \text{ cm} = +0.78 \text{ cm}.$$



$$R = \sqrt{R_x^2 + R_y^2} = \sqrt{(2.35 \text{ cm})^2 + (0.78 \text{ cm})^2}$$

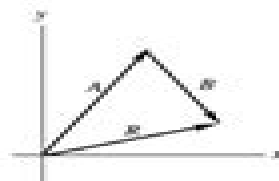
$$R = 2.48 \text{ cm}$$

$$\tan \theta = \frac{R_y}{R_x} = \frac{+0.78 \text{ cm}}{+2.35 \text{ cm}} = +0.3319$$

$$\theta = 18.4^\circ$$

Figure 1.35b

**EVALUATE:** The vector addition diagram for  $\vec{R} = \vec{A} + \vec{B}$  is



$\vec{R}$  is in the 1st quadrant, with  $|R_y| < |R_x|$ , in agreement with our calculation.

Figure 1.35c

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