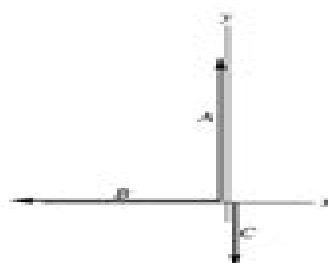


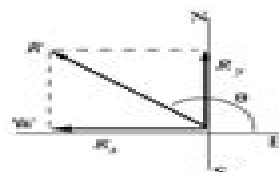
Select a coordinate system where $+x$ is east and $+y$ is north. Let $\vec{A}$, $\vec{B}$, and $\vec{C}$ be the three displacements of the professor. Then the resultant displacement $\vec{R}$ is given by $\vec{R} = \vec{A} + \vec{B} + \vec{C}$. By the method of components, $R_x = A_x + B_x + C_x$ and $R_y = A_y + B_y + C_y$. Find the x and y components of each vector; add them to find the components of the resultant. Then the magnitude and direction of the resultant can be found from its x and y components that we have calculated. As always it is essential to draw a sketch.

EXECUTE:



$$\begin{aligned} A_x &= 0, \quad A_y = +3.25 \text{ km} \\ B_x &= -2.20 \text{ km}, \quad B_y = 0 \\ C_x &= 0, \quad C_y = -1.50 \text{ km} \\ R_x &= A_x + B_x + C_x \\ R_x &= 0 - 2.20 \text{ km} + 0 = -2.20 \text{ km} \\ R_y &= A_y + B_y + C_y \\ R_y &= 3.25 \text{ km} + 0 - 1.50 \text{ km} = 1.75 \text{ km} \end{aligned}$$

Figure 1.33b



$$\begin{aligned} R &= \sqrt{R_x^2 + R_y^2} = \sqrt{(-2.20 \text{ km})^2 + (1.75 \text{ km})^2} \\ R &= 2.81 \text{ km} \\ \tan \theta &= \frac{R_y}{R_x} = \frac{1.75 \text{ km}}{-2.20 \text{ km}} = -0.800 \\ \theta &= 141.5^\circ \end{aligned}$$

Figure 1.33c

The angle θ measured counterclockwise from the $+x$ -axis. In terms of compass directions, the resultant displacement is 38.5° N of W.

EVALUATE: $R_x < 0$ and $R_y > 0$, so $\vec{R}$ is in the 2nd quadrant. This agrees with the vector addition diagram.

- 1.34. IDENTIFY:** Use $A = \sqrt{A_x^2 + A_y^2}$ and $\tan \theta = \frac{A_y}{A_x}$ to calculate the magnitude and direction of each of the given vectors.

SET UP: A sketch of A_x , A_y and $\vec{A}$ tells us the quadrant in which $\vec{A}$ lies.

EXECUTE: (a) $\sqrt{(-8.60 \text{ cm})^2 + (5.20 \text{ cm})^2} = 10.0 \text{ cm}$, $\arctan\left(\frac{5.20}{-8.60}\right) = 148.8^\circ$ (which is $180^\circ - 31.2^\circ$).

(b) $\sqrt{(-9.7 \text{ m})^2 + (-2.45 \text{ m})^2} = 10.0 \text{ m}$, $\arctan\left(\frac{-2.45}{-9.7}\right) = 14^\circ + 180^\circ = 194^\circ$.

(c) $\sqrt{(7.75 \text{ km})^2 + (-2.70 \text{ km})^2} = 8.21 \text{ km}$, $\arctan\left(\frac{-2.7}{7.75}\right) = 340.8^\circ$ (which is $360^\circ - 19.2^\circ$).

EVALUATE: In each case the angle is measured counterclockwise from the $+x$ axis. Our results for θ agree with our sketches.

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