1.27. IDENTIFY: For each vector F

, use that F

_x = F cos θ and F

_y = F sin θ, when θ is the angle F

makes with the +x axis, measured counterclockwise from the axis.

SET UP: For \vec{A} , $\theta = 270.0^{\circ}$. For \vec{B} , $\theta = 60.0^{\circ}$. For \vec{C} , $\theta = 205.0^{\circ}$. For \vec{D} , $\theta = 143.0^{\circ}$.

EXECUTE: $A_x = 0$, $A_y = -8.00$ m. $B_x = 7.50$ m. $B_y = 13.0$ m. $C_x = -10.9$ m. $C_y = -5.07$ m.

 $D_x = -7.99$ m, $D_x = 6.02$ m.

EVALUATE: The signs of the components correspond to the quadrant in which the vector lies.

1.28. IDENTIFY: $\tan \theta = \frac{A_y}{A_z}$, for θ measured counterclockwise from the +x-axis.

SET UP: A sketch of A_1 , A_2 and \hat{A} tells us the quadrant in which \hat{A} lies.

EXECUTE:

- (a) $\tan \theta = \frac{A_y}{A_z} = \frac{-1.00 \text{ m}}{2.00 \text{ m}} = -0.500$, $\theta = \tan^{-1}(-0.500) = 360^{\circ} 26.6^{\circ} = 333^{\circ}$.
- **(b)** $\tan \theta = \frac{A_y}{A_z} = \frac{1.00 \text{ m}}{2.00 \text{ m}} = 0.500, \ \theta = \tan^{-1}(0.500) = 26.6^{\circ}.$
- (c) $\tan \theta = \frac{A_v}{A_0} = \frac{1.00 \text{ m}}{-2.00 \text{ m}} = -0.500. \ \theta = \tan^{-1}(-0.500) = 180^{\circ} 26.6^{\circ} = 153^{\circ}.$
- (d) $\tan \theta = \frac{A_y}{A_z} = \frac{-1.00 \text{ m}}{-2.00 \text{ m}} = 0.500. \ \theta = \tan^{-3}(0.500) = 180^{\circ} + 26.6^{\circ} = 207^{\circ}$

EVALUATE: The angles 26.6° and 207° have the same tangent. Our sketch tells us which is the correct value of θ.

1.29. IDENTIFY: Given the direction and one component of a vector, find the other component and the magnitude.

SET UP: Use the tangent of the given angle and the definition of vector magnitude.

EXECUTE: (a)
$$ton 32.0^{\circ} = \frac{|A_z|}{|A_z|}$$

$$|A_z| = (9.60 \text{ m}) \tan 32.0^{\circ} = 6.00 \text{ m}.$$
 $A_z = -6.00 \text{ m}.$

(b)
$$A = \sqrt{A_c^2 + A_c^2} = 11.3 \text{ m}.$$

EVALUATE: The magnitude is greater than either of the components.

1.30, IDENTIFY: Given the direction and one component of a vector, find the other component and the magnitude.

SET UP: Use the tangent of the given angle and the definition of vector magnitude.

EXECUTE: (a)
$$\tan 34.0^{\circ} = \frac{|A_s|}{|A_s|}$$

$$|A_s| = \frac{|A_s|}{\tan 34.0^{\circ}} = \frac{16.0 \text{ m}}{\tan 34.0^{\circ}} = 23.72 \text{ m}$$

$$A_{\mu} = -23.7 \text{ m}.$$

(b) $A = \sqrt{A_{\mu}^2 + A_{\mu}^2} = 28.6 \text{ m}.$

EVALUATE: The magnitude is greater than either of the components.

1.31. IDENTIFY: If \(\bar{C} = \hat{A} + \bar{B}\), then \(C_x = A_x + B_y\) and \(C_y = A_y + B_y\). Use \(C_x\) and \(C_y\) to find the magnitude and direction of \(\bar{C}\).

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