

# CHAPTER 1 | INTRODUCTION AND MATHEMATICAL CONCEPTS

## ANSWERS TO FOCUS ON CONCEPTS QUESTIONS

- (d) The resultant vector **R** is drawn from the tail of the first vector to the head of the last vector.
- (c) Note from the drawing that the magnitude  $R$  of the resultant vector **R** is equal to the shortest distance between the tail of **A** and the head of **B**. Thus,  $R$  is less than the magnitude (length) of **A** plus the magnitude of **B**.
- (a) The triangle in the drawing is a right triangle. The lengths  $A$  and  $B$  of the two sides are known, so the Pythagorean theorem can be used to determine the length  $R$  of the hypotenuse.
- (b) The angle is found by using the inverse tangent function,  $\theta = \tan^{-1}\left(\frac{4.0 \text{ km}}{3.0 \text{ km}}\right) = 53^\circ$ .
- (b) In this drawing the vector  $-\mathbf{C}$  is reversed relative to **C**, while vectors **A** and **B** are not reversed.
- (c) In this drawing the vectors  $-\mathbf{B}$  and  $-\mathbf{C}$  are reversed relative to **B** and **C**, while vector **A** is not reversed.
- (c) These vectors form a closed four-sided polygon, with the head of the fourth vector exactly meeting the tail of the first vector. Thus, the resultant vector is zero.
- (c) When the two vector components  $A_x$  and  $A_y$  are added by the tail-to-head method, the sum equals the vector **A**. Therefore, these vector components are the correct ones.
- (b) The three vectors form a right triangle, so the magnitude of **A** is given by the Pythagorean theorem as  $A = \sqrt{A_x^2 + A_y^2}$ . If  $A_x$  and  $A_y$  double in size, then the magnitude of **A** doubles:  $\sqrt{(2A_x)^2 + (2A_y)^2} = \sqrt{4A_x^2 + 4A_y^2} = 2\sqrt{A_x^2 + A_y^2} = 2A$ .
- (a) The angle  $\theta$  is determined by the inverse tangent function,  $\theta = \tan^{-1}\left(\frac{A_y}{A_x}\right)$ . If  $A_x$  and  $A_y$  both become twice as large, the ratio does not change, and  $\theta$  remains the same.
- (b) The displacement vector **A** points in the  $-y$  direction. Therefore, it has no scalar component along the  $x$  axis ( $A_x = 0 \text{ m}$ ) and its scalar component along the  $y$  axis is negative.

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