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.
- 4. (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 -C is reversed relative to C, while vectors A and B are not reversed.
- (c) In this drawing the vectors -B and -C are reversed relative to B and C, while vector A is not reversed.
- (e) 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.
- 9. (b) The three vectors form a right triangle, so the magnitude of A is given by the Pythagorean theorem as A = √A_x² + A_y². If A_x and A_y double in size, then the magnitude of A doubles: √(2A_x)² + (2A_y)² = √4A_x² + 4A_y² = 2√A_x² + A_y² = 2A.
- 10. (a) The angle θ is determined by the inverse tangent function, $\theta = \tan^{-1} \left(\frac{A_p}{A_x} \right)$. If A_x and A_y both become twice as large, the ratio does not change, and θ 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 m) and its scalar component along the y axis is negative.

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