## 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<sub>X</sub> and A<sub>y</sub> 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 = √A₂² + A₂² . If A₂ and A₂ double in size, then the magnitude of A doubles: √(2A₂)² + (2A₂)² = √4A₂² + 4A₂² = 2√A₂² + A₂² = 2A.
- 10. (a) The angle  $\theta$  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  $\theta$  remains the same.
- (b) The displacement vector A points in the -y direction. Therefore, it has no scalar component along the x axis (A<sub>X</sub> = 0 m) and its scalar component along the y axis is negative.

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- 1. Understanding the eBook Cutnell And Johnson 9th Edition Solutions Manual
  - The Rise of Digital Reading Cutnell And Johnson 9th Edition Solutions Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Cutnell And Johnson 9th Edition Solutions Manual
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Cutnell And Johnson 9th Edition Solutions Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Cutnell And Johnson 9th Edition Solutions Manual
  - Personalized Recommendations
  - $\circ\,$  Cutnell And Johnson 9th Edition Solutions Manual User Reviews and Ratings
  - Cutnell And Johnson 9th Edition Solutions Manual and Bestseller Lists
- 5. Accessing Cutnell And Johnson 9th Edition Solutions Manual Free and Paid eBooks
  - Cutnell And Johnson 9th Edition Solutions Manual Public Domain eBooks
  - Cutnell And Johnson 9th Edition Solutions Manual eBook Subscription Services
  - Cutnell And Johnson 9th Edition Solutions Manual Budget-Friendly Options

- 6. Navigating Cutnell And Johnson 9th Edition Solutions Manual eBook Formats
  - o ePub, PDF, MOBI, and More
  - Cutnell And Johnson 9th Edition Solutions Manual Compatibility with Devices
  - Cutnell And Johnson 9th Edition Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Cutnell And Johnson 9th Edition Solutions Manual
  - Highlighting and Note-Taking Cutnell And Johnson 9th Edition Solutions Manual
  - Interactive Elements Cutnell And Johnson 9th Edition Solutions Manual
- 8. Staying Engaged with Cutnell And Johnson 9th Edition Solutions Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Cutnell And Johnson 9th Edition Solutions Manual
- 9. Balancing eBooks and Physical Books Cutnell And Johnson 9th Edition Solutions Manual
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Cutnell And Johnson 9th Edition Solutions Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Cutnell And Johnson 9th Edition Solutions Manual
  - Setting Reading Goals Cutnell And Johnson 9th Edition Solutions Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cutnell And Johnson 9th Edition Solutions Manual
  - Fact-Checking eBook Content of Cutnell And Johnson 9th Edition Solutions Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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