

page 125

Solve problems 5–10 algebraically. You may also choose to solve some of them graphically to check your answers.

5. Sudhir walks 0.40 km in a direction 60.0° west of north, then goes 0.50 km due west. What is his displacement?

Identify north and west as the positive directions.

$$d_{1W} = d_1 \sin \theta = (0.40 \text{ km})(\sin 60.0^\circ) = 0.35 \text{ km}$$

$$d_{1N} = d_1 \cos \theta = (0.40 \text{ km})(\cos 60.0^\circ) = 0.20 \text{ km}$$

$$d_{2W} = 0.50 \text{ km} \quad d_{2N} = 0.00 \text{ km}$$

$$R_W = d_{1W} + d_{2W} = 0.35 \text{ km} + 0.50 \text{ km} = 0.85 \text{ km}$$

$$R_N = d_{1N} + d_{2N} = 0.20 \text{ km} + 0.00 \text{ km} = 0.20 \text{ km}$$

$$\begin{aligned} R &= \sqrt{R_W^2 + R_N^2} \\ &= \sqrt{(0.85 \text{ km})^2 + (0.20 \text{ km})^2} \\ &= 0.87 \text{ km} \end{aligned}$$

$$\begin{aligned} \theta &= \tan^{-1}\left(\frac{R_W}{R_N}\right) \\ &= \tan^{-1}\left(\frac{0.85 \text{ km}}{0.20 \text{ km}}\right) \\ &= 77^\circ \end{aligned}$$

$R = 0.87 \text{ km}$ at 77° west of north

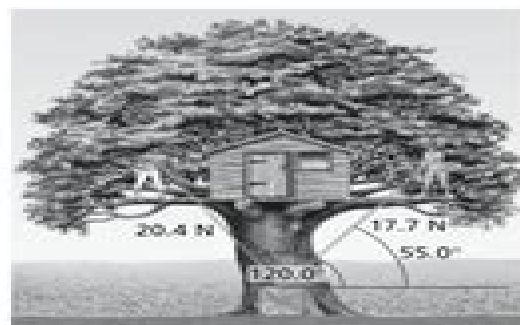
6. Afua and Chrissy are going to sleep overnight in their tree house and are using some ropes to pull up a box containing their pillows and blankets, which have a total mass of 3.20 kg. The girls stand on different branches, as shown in **Figure 5-6**, and pull at the angles and with the forces indicated. Find the x - and y -components of the net force on the box. *Hint: Draw a free-body diagram so that you do not leave out a force.*

Identify up and right as positive.

$$\begin{aligned} F_{A \text{ on box},x} &= F_A \text{ on box} \cos \theta_A \\ &= (20.4 \text{ N})(\cos 120^\circ) \\ &= -10.2 \text{ N} \end{aligned}$$

$$\begin{aligned} F_{A \text{ on box},y} &= F_A \text{ on box} \sin \theta_A \\ &= (20.4 \text{ N})(\sin 120^\circ) \\ &= 17.7 \text{ N} \end{aligned}$$

$$\begin{aligned} F_{C \text{ on box},x} &= F_C \text{ on box} \cos \theta_C \\ &= (17.7 \text{ N})(\cos 55^\circ) \end{aligned}$$



■ Figure 5-6

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AW Rasmussen



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Table of Contents Physics Solutions Manual Chapter 5

1. Understanding the eBook Physics Solutions Manual Chapter 5
 - The Rise of Digital Reading Physics Solutions Manual Chapter 5
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Solutions Manual Chapter 5
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physics Solutions Manual Chapter 5
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Solutions Manual Chapter 5
 - Personalized Recommendations
 - Physics Solutions Manual Chapter 5 User Reviews and Ratings
 - Physics Solutions Manual Chapter 5 and Bestseller Lists
5. Accessing Physics Solutions Manual Chapter 5 Free and Paid eBooks

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- Physics Solutions Manual Chapter 5 eBook Subscription Services
- Physics Solutions Manual Chapter 5 Budget-Friendly Options
- 6. Navigating Physics Solutions Manual Chapter 5 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physics Solutions Manual Chapter 5 Compatibility with Devices
 - Physics Solutions Manual Chapter 5 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics Solutions Manual Chapter 5
 - Highlighting and Note-Taking Physics Solutions Manual Chapter 5
 - Interactive Elements Physics Solutions Manual Chapter 5
- 8. Staying Engaged with Physics Solutions Manual Chapter 5
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Solutions Manual Chapter 5
- 9. Balancing eBooks and Physical Books Physics Solutions Manual Chapter 5
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Solutions Manual Chapter 5
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physics Solutions Manual Chapter 5
 - Setting Reading Goals Physics Solutions Manual Chapter 5
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics Solutions Manual Chapter 5
 - Fact-Checking eBook Content of Physics Solutions Manual Chapter 5
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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