

CHAPTER 5

Trigonometric Ratios

NOTE: Answers are given to the same number of decimal points as the numbers in each question.

Getting Started, p. 274

1. a)



By the Pythagorean theorem, $c^2 = a^2 + b^2$.

$$c^2 = 5^2 + 12^2$$

$$c^2 = 25 + 144$$

$$c^2 = 169$$

$$c = \sqrt{169}$$

$$c = 13 \text{ m}$$

b)



By the Pythagorean theorem, $c^2 = d^2 + f^2$.

$$11^2 = 8^2 + f^2$$

$$121 = 64 + f^2$$

$$f^2 = 121 - 64$$

$$f^2 = 57$$

$$f = \sqrt{57} \text{ m}$$

2. a)



From number 1, $c = 13 \text{ m}$.

$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\sin A = \frac{a}{c}$$

$$\sin A = \frac{5}{13}$$

$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\cos A = \frac{b}{c}$$

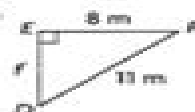
$$\cos A = \frac{12}{13}$$

$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$$

$$\tan A = \frac{a}{b}$$

$$\tan A = \frac{5}{12}$$

b)



From number 1, $f = \sqrt{57} \text{ m}$.

$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\sin D = \frac{d}{e}$$

$$\sin D = \frac{8}{11}$$

$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\cos D = \frac{f}{e}$$

$$\cos D = \frac{\sqrt{57}}{11}$$

$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$$

$$\tan D = \frac{d}{f}$$

$$\tan D = \frac{8}{\sqrt{57}}$$

$$\tan D = \frac{8\sqrt{57}}{57}$$

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Table of Contents Mcr3u Solution Guide Nelson

1. Understanding the eBook Mcr3u Solution Guide Nelson
 - The Rise of Digital Reading Mcr3u Solution Guide Nelson
 - Advantages of eBooks Over Traditional Books
2. Identifying Mcr3u Solution Guide Nelson
 - 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 Mcr3u Solution Guide Nelson
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mcr3u Solution Guide Nelson
 - Personalized Recommendations
 - Mcr3u Solution Guide Nelson User Reviews and Ratings

-
- Mcr3u Solution Guide Nelson and Bestseller Lists
 - 5. Accessing Mcr3u Solution Guide Nelson Free and Paid eBooks
 - Mcr3u Solution Guide Nelson Public Domain eBooks
 - Mcr3u Solution Guide Nelson eBook Subscription Services
 - Mcr3u Solution Guide Nelson Budget-Friendly Options
 - 6. Navigating Mcr3u Solution Guide Nelson eBook Formats
 - ePub, PDF, MOBI, and More
 - Mcr3u Solution Guide Nelson Compatibility with Devices
 - Mcr3u Solution Guide Nelson Enhanced eBook Features
 - 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mcr3u Solution Guide Nelson
 - Highlighting and Note-Taking Mcr3u Solution Guide Nelson
 - Interactive Elements Mcr3u Solution Guide Nelson
 - 8. Staying Engaged with Mcr3u Solution Guide Nelson
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mcr3u Solution Guide Nelson
 - 9. Balancing eBooks and Physical Books Mcr3u Solution Guide Nelson
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mcr3u Solution Guide Nelson
 - 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 - 11. Cultivating a Reading Routine Mcr3u Solution Guide Nelson
 - Setting Reading Goals Mcr3u Solution Guide Nelson
 - Carving Out Dedicated Reading Time
 - 12. Sourcing Reliable Information of Mcr3u Solution Guide Nelson
 - Fact-Checking eBook Content of Mcr3u Solution Guide Nelson
 - 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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