## 6.2 EXERCISES

### CONCEPTS

1. A right triangle with an angle $\theta$ is shown in the figure.



(a) Label the "opposite" and "adjacent" sides of $\theta$ and the hypotenuse of the triangle.

(b) The trigonometric functions of the angle $\theta$ are defined as follows:

$$\sin\theta = \underline{\quad\quad} \qquad \cos\theta = \underline{\quad\quad} \qquad \tan\theta = \underline{\quad\quad}$$

(c) The trigonometric ratios do not depend on the size of the triangle. This is because all right triangles with the same acute angle $\theta$ are _____.

2. The reciprocal identities state that

$$\csc\theta = \frac{1}{\underline{\quad}} \qquad \sec\theta = \frac{1}{\underline{\quad}} \qquad \cot\theta = \frac{1}{\underline{\quad}}$$

### SKILLS

**3–8 ■ Trigonometric Ratios** Find the exact values of the six trigonometric ratios of the angle $\theta$ in the triangle.

3.



4.



5.



6.



7.



8.



**9–10 ■ Trigonometric Ratios** Find (a) $\sin\alpha$ and $\cos\beta$, (b) $\tan\alpha$ and $\cot\beta$, and (c) $\sec\alpha$ and $\csc\beta$.

9.



10.



**11–14 ■ Using a Calculator** Use a calculator to evaluate the expression. Round your answer to five decimal places.

11. (a) $\sin 22°$      (b) $\cot 23°$

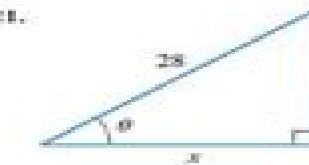12. (a) $\cos 37°$      (b) $\csc 48°$

13. (a) $\sec 13°$      (b) $\tan 51°$

14. (a) $\csc 10°$      (b) $\sin 46°$

**15–20 ■ Finding an Unknown Side** Find the side labeled $x$. In Exercises 17 and 18 state your answer rounded to five decimal places.

15.



16.



17.



18.



19.



20.



**21–22 ■ Trigonometric Ratios** Express $x$ and $y$ in terms of trigonometric ratios of $\theta$.

21.



22.



**23–28 ■ Trigonometric Ratios** Sketch a triangle that has acute angle $\theta$, and find the other five trigonometric ratios of $\theta$.

23. $\tan\theta = \frac{3}{4}$     24. $\cos\theta = \frac{9}{40}$     25. $\cot\theta = 1$

26. $\tan\theta = \sqrt{3}$     27. $\csc\theta = \frac{13}{12}$     28. $\cot\theta = \frac{2}{3}$

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D Keegan

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**Table of Contents Practice 8 2 Special Right Triangles Form K**

1. Understanding the eBook Practice 8 2 Special Right Triangles Form K
    - The Rise of Digital Reading Practice 8 2 Special Right Triangles Form K
    - Advantages of eBooks Over Traditional Books
2. Identifying Practice 8 2 Special Right Triangles Form K
    - 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 Practice 8 2 Special Right Triangles Form K
    - User-Friendly Interface
4. Exploring eBook Recommendations from Practice 8 2 Special Right Triangles Form K

- Personalized Recommendations
- Practice 8 2 Special Right Triangles Form K User Reviews and Ratings
- Practice 8 2 Special Right Triangles Form K and Bestseller Lists

5. Accessing Practice 8 2 Special Right Triangles Form K Free and Paid eBooks
   - Practice 8 2 Special Right Triangles Form K Public Domain eBooks
   - Practice 8 2 Special Right Triangles Form K eBook Subscription Services
   - Practice 8 2 Special Right Triangles Form K Budget-Friendly Options
6. Navigating Practice 8 2 Special Right Triangles Form K eBook Formats
   - ePub, PDF, MOBI, and More
   - Practice 8 2 Special Right Triangles Form K Compatibility with Devices
   - Practice 8 2 Special Right Triangles Form K Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Practice 8 2 Special Right Triangles Form K
   - Highlighting and Note-Taking Practice 8 2 Special Right Triangles Form K
   - Interactive Elements Practice 8 2 Special Right Triangles Form K
8. Staying Engaged with Practice 8 2 Special Right Triangles Form K
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Practice 8 2 Special Right Triangles Form K
9. Balancing eBooks and Physical Books Practice 8 2 Special Right Triangles Form K
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Practice 8 2 Special Right Triangles Form K
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Practice 8 2 Special Right Triangles Form K
    - Setting Reading Goals Practice 8 2 Special Right Triangles Form K
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Practice 8 2 Special Right Triangles Form K

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