6.2 EXERCISES

CONCEPTS

1. A right triangle with an angle θ is shown in the figure.

(a) Label the "opposite" and "adjacent" sides of θ and the hypotenuse of the triangle.

(b) The trigonometric functions of the angle θ are defined as follows:

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

(c) The trigonometric ratios do not depend on the size of the triangle. This is because all right triangles with the same acute angle θ are _____.
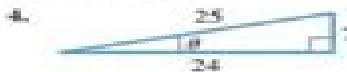
2. The reciprocal identities state that

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

SKILLS

3–8 ■ **Trigonometric Ratios** Find the exact values of the six trigonometric ratios of the angle θ 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) $\tan 51°$
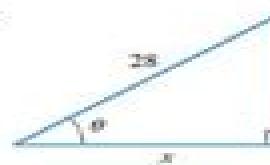
14. (a) $\csc 10°$ (b) $\sin 46°$

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 θ.

21.

22.

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

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. $\cot \theta = \frac{3}{2}$

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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

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