

## 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:

$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}} \quad \cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}} \quad \tan \theta = \frac{\text{opposite}}{\text{adjacent}}$$

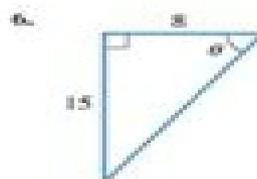
- (c) The trigonometric ratios do not depend on the size of the triangle. This is because all right triangles with the same acute angle  $\theta$  are \_\_\_\_\_.

2. The reciprocal identities state that

$$\csc \theta = \frac{1}{\sin \theta} \quad \sec \theta = \frac{1}{\cos \theta} \quad \cot \theta = \frac{1}{\tan \theta}$$

### SKILLS

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



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



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

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

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

13. (a)  $\sec 13^\circ$  (b)  $\tan 51^\circ$

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

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



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



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

23.  $\tan \theta = \frac{1}{2}$  24.  $\cos \theta = \frac{3}{5}$  25.  $\cot \theta = 1$

26.  $\tan \theta = \sqrt{3}$  27.  $\csc \theta = \frac{5}{4}$  28.  $\cot \theta = \frac{3}{4}$

# Practice 8 2 Special Right Triangles Answer Key

**LP Steffe**



**Practice 8 2 Special Right Triangles Answer Key:**

## **Practice 8 2 Special Right Triangles Answer Key** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Practice 8 2 Special Right Triangles Answer Key**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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