

## 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:

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

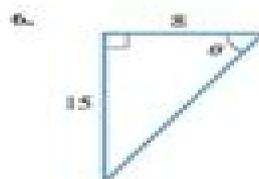
- (c) The trigonometric ratios do not depend on the size of the triangle. This is because all right triangles with the same acute angle  $\theta$  are \_\_\_\_\_.

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.  $\cos \theta = \frac{1}{3}$  25.  $\cot \theta = 1$

26.  $\tan \theta = \sqrt{3}$  27.  $\csc \theta = \frac{1}{4}$  28.  $\cot \theta = \frac{1}{2}$

# Practice 8 2 Special Right Triangles Form K

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