

## 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:

$$\sin \theta = \boxed{\quad}$$

$$\cos \theta = \boxed{\quad}$$

$$\tan \theta = \boxed{\quad}$$

(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 similar.  
 2. The reciprocal identities state that

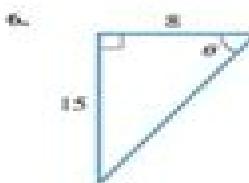
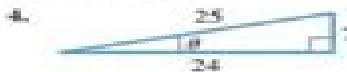
$$\csc \theta = \frac{1}{\boxed{\quad}}$$

$$\sec \theta = \frac{1}{\boxed{\quad}}$$

$$\cot \theta = \frac{1}{\boxed{\quad}}$$

### 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)  $\cos 23^\circ$

12. (a)  $\cos 37^\circ$

(b)  $\csc 48^\circ$

13. (a)  $\sec 13^\circ$

(b)  $\tan 51^\circ$

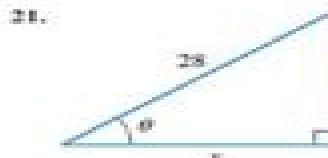
14. (a)  $\csc 10^\circ$

(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.  $\csc \theta = \frac{13}{5}$

28.  $\cot \theta = \frac{1}{2}$

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**J Rink**

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