

## 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.

3.



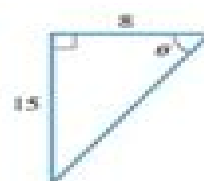
4.



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)  $\sin 22^\circ$

(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.

15.



16.



17.



18.



19.

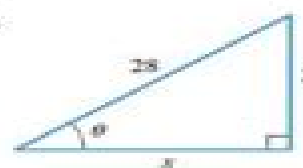


20.



- 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.  $\tan \theta = \frac{1}{2}$

24.  $\cos \theta = \frac{1}{3}$

25.  $\cot \theta = 1$

26.  $\tan \theta = \sqrt{3}$

27.  $\csc \theta = \frac{1}{4}$

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

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**Brian W. Stewart**



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