

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:

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

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



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

23. $\tan \theta = \frac{1}{2}$ 24. $\cos \theta = \frac{11}{13}$ 25. $\cot \theta = 1$

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

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Daniel F McAuley



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