

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.

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 θ .

21.



22.



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

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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