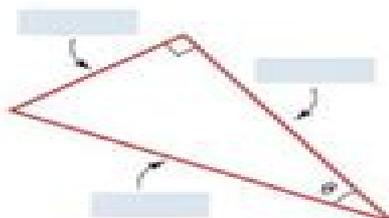


6.2 EXERCISES

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:

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

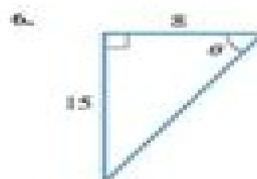
- (c) The trigonometric ratios do not depend on the size of the triangle. This is because all right triangles with the same acute angle θ are _____.

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. $\cos \theta = \frac{3}{5}$ 25. $\cot \theta = 1$
 26. $\tan \theta = \sqrt{3}$ 27. $\csc \theta = \frac{5}{4}$ 28. $\cot \theta = \frac{3}{4}$

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