

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:

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

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

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

(c) The trigonometric ratios do not depend on the size of the triangle. This is because all right triangles with the same acute angle θ 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 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) $\cos 23^\circ$

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

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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Brian W. Stewart

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