

1. 185°

- a. Draw the angle in standard position

b. Reference angle: _____

c. + coterminal: _____

d. - coterminal: _____

2. -75°

- a. Draw the angle in standard position

b. Reference angle: _____

c. + coterminal: _____

d. - coterminal: _____

3. 810°

- a. Draw the angle in standard position

b. Reference angle: _____

c. + coterminal: _____

d. - coterminal: _____

4. 485°

- a. Draw the angle in standard position

b. Reference angle: _____

c. + coterminal: _____

d. - coterminal: _____

5. 5π

- a. Draw the angle in standard position

b. Reference angle: _____

c. + coterminal: _____

d. - coterminal: _____

6. $\frac{5\pi}{2}$

- a. Draw the angle in standard position

b. Reference angle: _____

c. + coterminal: _____

d. - coterminal: _____

7. $-\frac{7\pi}{6}$

a. Draw the angle in standard position

b. Reference angle: _____

c. + coterminal: _____

d. - coterminal: _____

8. $-\frac{\pi}{3}$

a. Draw the angle in standard position

b. Reference angle: _____

c. + coterminal: _____

d. - coterminal: _____

Find the exact value of each trigonometric function.

9. $\sin 150^\circ$

10. $\cos 240^\circ$

11. $\cot 135^\circ$

12. $\csc \frac{\pi}{4}$

13. $\sec \frac{5\pi}{4}$

14. $\tan -\pi$

15. $\tan(-30^\circ)$

16. $\sec 780^\circ$

17. $\csc 450^\circ$

18. $\cos \frac{2\pi}{3}$

19. $\sin -\frac{17\pi}{4}$

20. $\cot \frac{11\pi}{6}$

Find the exact values of the remaining five trigonometric functions of θ .

21. $\csc \theta = \sqrt{2}$, Quadrant II

22. $\tan \theta = -\frac{12}{5}$, Quadrant IV

23. $\sin \theta = \frac{\sqrt{3}}{2}$, Quadrant I

24. $\sec \theta = -\frac{41}{9}$, Quadrant III

Find the exact values of the 6 trig functions.

25. $(7, 24)$

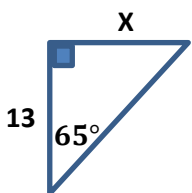
26. $(-16, -63)$

27. $(-65, 72)$

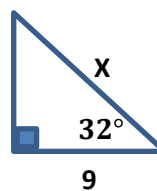
28. $(33, -56)$

Find the missing side or angle.

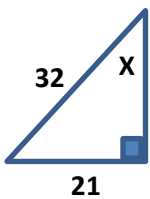
29.



30.



31.



32.

