

Draw the angle.

1. 595°

Convert from degrees to radians.

5. $-\frac{11\pi}{15}$

7. Convert to decimal: $89^\circ 35' 78''$

Name a positive and negative coterminal angle.

11. $\frac{7\pi}{9}$

Find the complement and the supplement.

12. 53°

13. Find the arc length of a circle with radius 12.6 m and subtended by an angle of .457 radians.

14. A circle has a diameter of 46 in and is subtended by an angle of 350° . What is the arc length?

15. A circle has an arc length of 45 ft and radius of 9 ft. What is the subtended angle in degrees?

16. A pulley has a radius of 30 in turns at 9 revolutions per 5 seconds. What is the linear speed of the belt driving the pulley in in/sec.

17. A 16 cm roller makes a 4.5 revolution per 3 seconds. What is the angular speed in radian per second.

In what quadrant does θ lie?

19. $\cot \theta > 0$ and $\sin \theta < 0$

20. Evaluate the six trig functions when $\theta = \frac{5\pi}{3}$.

Determine the exact value.

21. $\sin 45^\circ \cos 45^\circ$

22. $\csc \frac{\pi}{4} - \cot \frac{2\pi}{3}$

23. Determine the angle measure in radians $\sec \theta = -2$

Evaluate:

24. $\sin 510^\circ$

25. $\cos \frac{-5\pi}{4}$

26. $\tan \frac{8\pi}{3}$

27. $\csc -540^\circ$

28. $\sec \frac{4\pi}{3}$

29. $\cot 210^\circ$

Evaluate using a calculator:

30. $\sin 234^\circ$

31. $\cos \frac{-5\pi}{7}$

32. $\tan \frac{11\pi}{8}$

33. $\csc -967^\circ$

34. $\sec \frac{\pi}{9}$

35. $\cot 310^\circ$

What ordered pair corresponds to:

36. $\frac{11\pi}{3}$

37. -570°

38. If an angle in standard position measures $-\frac{21\pi}{5}$ radians, in which quadrant does its terminal side lie?

Review 4.1-4.2

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