

Convert the radians to degrees

1. $\frac{5\pi}{3}$

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

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

Convert the degrees to radians

4. 260°

5. -45°

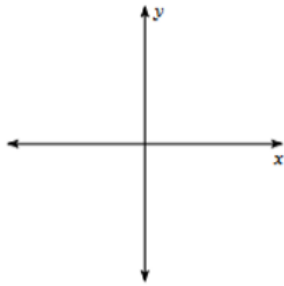
6. -200°

Arc Length

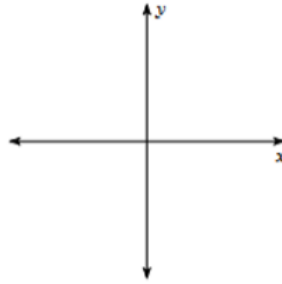
7. Find the length of the arc intercepted by the central angle $\frac{2\pi}{3}$ in a circle with a radius of 6.3 m.8. Find the radius of a circle with the central angle $\frac{\pi}{4}$ and an arc length of 7.9 cm.

Draw the angle and state which quadrant the angle will terminate.

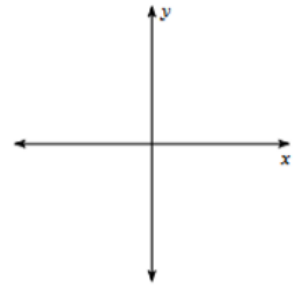
9. -700°



10. $-\frac{11\pi}{6}$

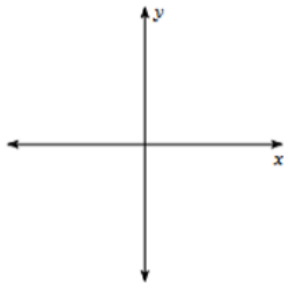


11. 4

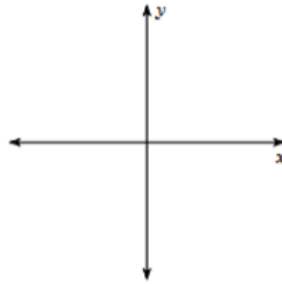


Draw the angle and state the reference angle.

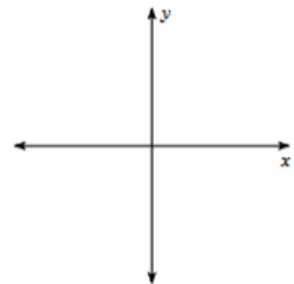
12. -190°



13. $-\frac{\pi}{4}$



14. $\frac{17\pi}{18}$



State one positive and one negative coterminal angle.

15. 60°

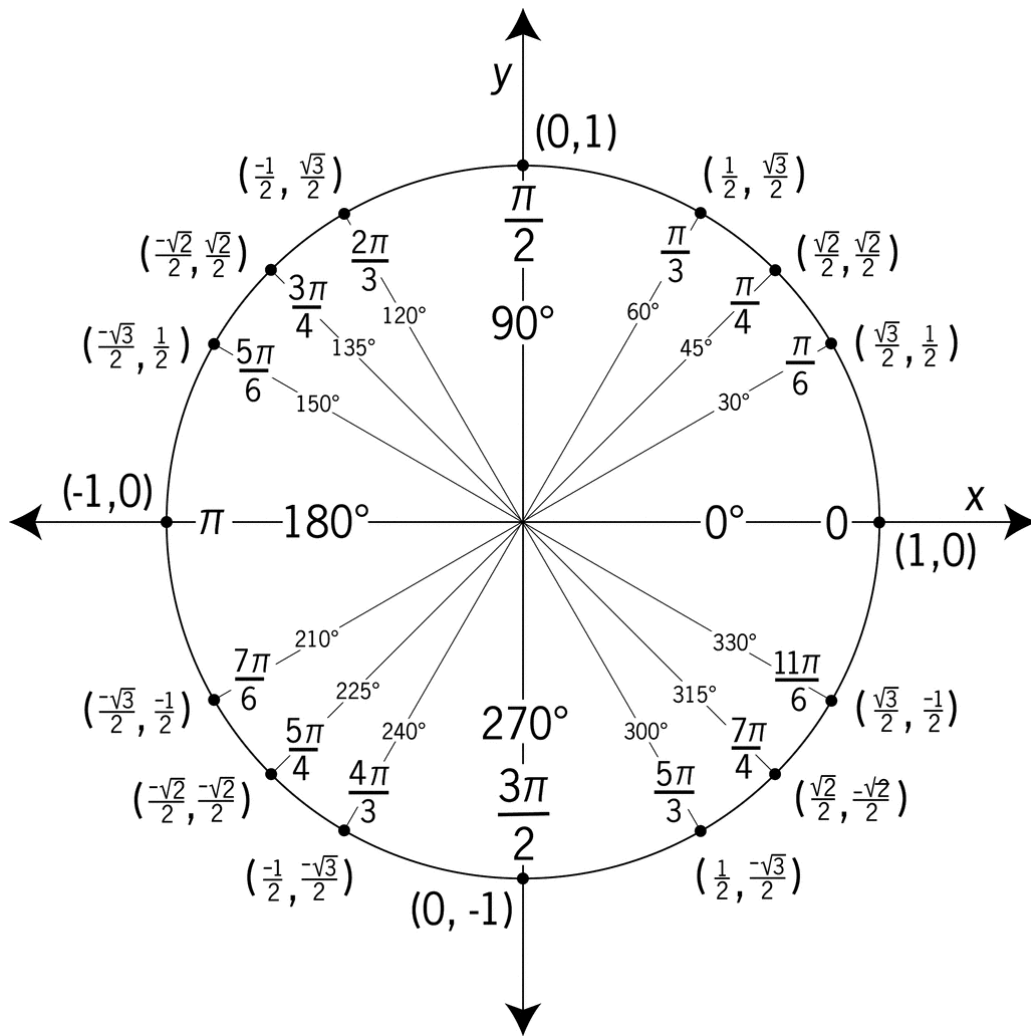
16. -380°

17. -75°

18. $\frac{\pi}{6}$

19. $\frac{23\pi}{3}$

20. -6π



Use the unit circle to answer the following.

1. $\sin \frac{4\pi}{3}$	2. $\tan \frac{-3\pi}{4}$	3. $\tan \pi$
4. $\cos(-16\pi)$	5. $\cos \frac{-2\pi}{3}$	6. $\sin \frac{19\pi}{4}$
7. $\csc \frac{7\pi}{6}$	8. $\cos \frac{3\pi}{2}$	9. $\sin \frac{7\pi}{4}$
10. $\tan \frac{5\pi}{6}$	11. $\tan \frac{-14\pi}{3}$	12. $\sin \frac{3\pi}{4}$
13. $\sin \frac{-5\pi}{3}$	14. $\tan \frac{5\pi}{4}$	15. $\cos 4\pi$
16. $\tan \frac{3\pi}{2}$	17. $\sin 3.14$	18. $\cos \frac{5\pi}{4}$
19. $\sin \frac{5\pi}{3}$	20. $\tan 5\pi$	21. $\cos \frac{7\pi}{6}$
22. $\cot \left(\frac{3\pi}{2}\right)$	23. $\tan \left(\frac{3\pi}{2}\right)$	24. $\sec -\frac{\pi}{4}$