

Express each degree measure as a radian measure using π .

1. 240°

2. -225°

3. 150°

4. -60°

5. 330°

Express each radian measure as a degree measure.

11. $\frac{3\pi^R}{4}$

12. $\frac{5\pi^R}{3}$

13. $-\frac{7\pi^R}{4}$

14. $\frac{3\pi^R}{2}$

15. $\frac{5\pi^R}{6}$

Find the exact value of the given function (no decimals!).

1. $\cos 495^\circ$

2. $\sin(-210^\circ)$

3. $\cos 765^\circ$

4. $\sin 600^\circ$

5. $\sin \frac{9\pi^R}{4}$

6. $\sin \frac{5\pi^R}{2}$

7. $\cos\left(-\frac{7\pi^R}{3}\right)$

8. $\cos\left(-\frac{7\pi^R}{6}\right)$

9. $\sin\left(-\frac{4\pi^R}{3}\right)$

10. $\cos \frac{19\pi^R}{6}$

11. $\cos(-5\pi^R)$

12. $\sin \frac{15\pi^R}{4}$

Find the arc length and area of the sector, given the radius and the measure of the central angle.

21. 35 cm; 72°

22. 2.8 cm; 330°

23. 105 cm; 150°

24. 630 mm; $\frac{5\pi^R}{6}$

25. 56 cm; $\frac{\pi^R}{8}$

26. 0.42 cm; $\frac{9\pi^R}{2}$