

Unit 2.1 Radian Measure PRACTICE

Convert each degree measure into radians.

1) $480^\circ \frac{8\pi}{3}$

2) $135^\circ \frac{3\pi}{4}$

3) $-960^\circ - \frac{16\pi}{3}$

4) $-585^\circ - \frac{13\pi}{4}$

5) $-525^\circ - \frac{35\pi}{12}$

6) $150^\circ \frac{5\pi}{6}$

7) $-885^\circ - \frac{59\pi}{12}$

8) $330^\circ \frac{11\pi}{6}$

Convert each radian measure into degrees.

9) $\frac{3\pi}{4}$
 135°

10) $\frac{37\pi}{36}$
 185°

11) $\frac{7\pi}{9}$
 140°

12) $\frac{71\pi}{12}$
 1065°

13) $\frac{\pi}{9}$
 20°

14) $\frac{\pi}{6}$
 30°

15) $\frac{9\pi}{4}$
 405°

16) $-\frac{11\pi}{36}$
 -55°

Find the exact value of each trigonometric function.

17) $\tan \frac{\pi}{4}$
 1

18) $\cos \frac{3\pi}{4} - \frac{\sqrt{2}}{2}$

19) $\sec \frac{3\pi}{4}$
 $-\sqrt{2}$

20) $\csc \frac{\pi}{3} \frac{2\sqrt{3}}{3}$

21) $\sec \frac{3\pi}{2}$
Undefined

22) $\tan \frac{\pi}{6} \frac{\sqrt{3}}{3}$

23) $\cos \frac{5\pi}{4} - \frac{\sqrt{2}}{2}$

24) $\cos \frac{\pi}{6} \frac{\sqrt{3}}{2}$