

Degrees to radian

$$30^\circ * \frac{\pi}{180}$$

Radian to Degree

$$\frac{\pi}{6} * \frac{180}{\pi}$$

Name _____

Date _____

Advanced Algebra Review #1 for Final Exam

Converting Degrees to radian measure and radian to Degree

Classwork

Convert each degree measure to radians. Leave answers in terms of π

1) 315

b) 225

c) 15

d) -45

2) -90

b) 135

c) -180

d) -225

3) -120

b) -240

c) 300

d) 360

4) 210

b) -135

c) -210

d) -315

Convert Each radian measure to degrees

5) $\frac{-\pi}{2}$

b) $\frac{4\pi}{3}$

c) $\frac{-3\pi}{4}$

d) $\frac{-\pi}{6}$

6) $\frac{-5\pi}{6}$

B) -2π

c) $\frac{5\pi}{4}$

d) $\frac{-\pi}{3}$

7) π

b) $\frac{-3\pi}{2}$

c) $\frac{2\pi}{3}$

d) $\frac{7\pi}{6}$

I know the exact Trig Values:

Degrees	Sin	Cos	Tan
0	0	1	
30	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	
45	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	
60	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	
90	1	0	

1) $\cos 45$

2) $\cos 135$

3) $\sin 210$

4) $\cos 150$

5) $\sin (-45)$

6) $\cos 315$

7) $\cos 225$

8) $\sin(-225)$

9) $\sin 150$

10) $\cos (-240)$

11) $\sin (-135)$

12) $\cos (-30)$

13) $\cos 210$

14) $\cos (90)$

15) $\sin (-120)$

16) $\sin(-315)$

17) $\cos \frac{\pi}{6}$

18) $\sin \left(\frac{\pi}{3}\right)$

19) $\cos \left(\frac{2\pi}{3}\right)$

20) $\sin\left(\frac{3\pi}{4}\right)$

21) $\cos \left(\frac{\pi}{4}\right)$

22) $\sin \left(\frac{-\pi}{4}\right)$

23) $\sin \left(\frac{5\pi}{3}\right)$

24) $\cos \left(\frac{-7\pi}{6}\right)$

25) $\cos (2\pi)$

26) $\sin \left(\frac{11\pi}{6}\right)$

27) $\cos \left(\frac{-5\pi}{6}\right)$

28) $\cos \frac{-\pi}{6}$