Converting Degrees to Radians

$$\text{Degree} \cdot \frac{\pi}{180^0} = \text{Radians}$$

Ex. 1
Convert 150° to radians:

$$150^0 \cdot \frac{\pi}{180^0} =$$

Converting Radians to Degrees

$$\text{Radians} \cdot \frac{180^0}{\pi} = \text{Degree}$$

Ex. 2
Convert $\frac{3\pi}{5}$ radians to degrees

$$\frac{3\pi}{5} \cdot \frac{180^0}{\pi} =$$

Convert Degrees to Radians

1. 40^0
2. 240^0
3. -510^0
4. 675^0
5. 390^0

Convert Radians to Degrees

6. $\frac{7\pi}{4}$
7. $\frac{-7\pi}{12}$
8. 5π
9. $\frac{4\pi}{9}$
10. $\frac{7\pi}{3}$

Convert each degree measure into radians and each radian measure into degrees

1. 80^0
2. $\frac{11\pi}{4}$
3. 800^0
4. 50^0
5. $\frac{-14\pi}{3}$
6. 7π
7. $\frac{31\pi}{9}$
8. 660^0
9. 12.5^0
10. 2

$360° = 2\pi$ radians

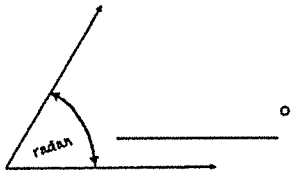
$180° = \pi$ radians

How many degrees are in 1 radian?

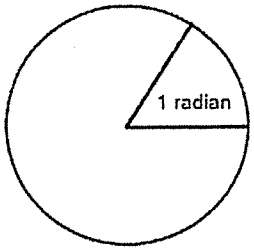
$$\text{Radians} \cdot \frac{180^0}{\pi} = \text{Degree}$$

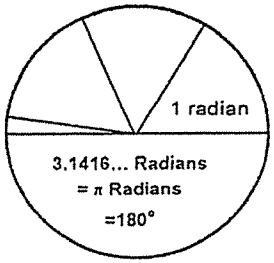
$$1 \cdot \frac{180^0}{\pi} = \underline{\qquad}^0$$

Use your calculator to check.

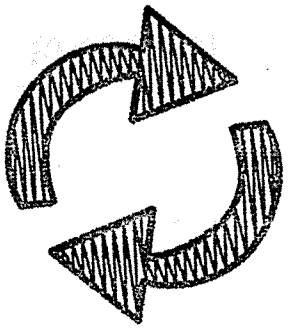


$\underline{\qquad}°$





Notes:



CONVERTING RADIANS & DEGREES

Name _____

Class _____

Date _____