# **Topic #2: Radians**

Let's recall some more things about circles:

The length of the outside of a circle is called the \_\_\_\_\_

There are \_\_\_\_\_ degrees in a circle.

Before, we have always described angles in terms of \_\_\_\_\_\_.

Now, we are going to describe angles in terms of \_\_\_\_\_\_.





## **Converting Radians and Degrees:**

### $180^{\circ} = \pi$ radians

Conversion Formulas	
1 degree =	1 radian =

#### Example 1:

Convert the following angle to radians:

135° = \_\_\_\_\_ radians

#### Example 2:

Convert the following angle to radians:

90° = \_\_\_\_\_ radians

## Example 3:

Convert the following angle to degrees:

$$\frac{7\pi}{6}$$
 = \_\_\_\_\_ degrees

#### Example 4:

Convert the following angle to degrees:



## <u>Closure</u>

In the space below, write the steps for converting an angle from degrees to radians.