What is a radian?

Using your Unit Circle from yesterday’s task and cut a piece of string the length of your radius. Start from the standard position (positive x-axis) and wrap the string around the circle. Mark all the way around the circle. How many radius lengths did it take to complete the distance around the circle? What geometric concept does this reflect?

Radian = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 180o= \_\_\_\_\_\_radians?
2. 360o = \_\_\_\_\_radians?
3. 90o = \_\_\_\_\_radians?
4. 270o=\_\_\_\_\_\_radians?
5. 45o = \_\_\_\_\_\_radians?

6. What formula could we write to convert any degree to radians?

7. What formula could we use to convert any radian to degrees?

8. Now on your unit circle, next to the degrees write the equivalent radian measure.

HW.

http://worksheets.tutorvista.com/degrees-to-radians-worksheet.html