**Unit 3 Part 1 Circles Review: Angles and Arc Measures, Segment Lengths, Tangents, Inscribed Quads**

**For each picture, write out the theorem or formula you would use to solve the problem.**



In the picture to the right, point *C* is the center.

1. You know  and need  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. You know  and need  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_





3. You are looking for  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5. You are looking for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. You are looking for *m* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6. You are looking for *m* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**In the circle below, and . Find the following measures.**



 7.  =

 8.  =

 9. =

 10. =

 11.  =

**For the following problems, determine which theorem to use, write an equation, and solve.**

13. 14.  find 

 

15. 200  16.



 700



17. 18.

19.  20.  and  find 

 

21**.  22.  , **

 **Find x = \_\_\_\_\_\_ Find y = \_\_\_\_\_\_\_ Find \_\_\_\_\_\_ Find x = \_\_\_\_\_\_\_**



 23. If the clock in our classroom has a radius of 7 inches, what is the arc length and area sector of the clock at 4pm? Draw a picture and show your work.

 24. The area of one piece of pizza is 9π . The pizza is cut into eighths. Find the radius of the

 pizza pie. Draw a picture and show your work .

 25. Find the **area** and **arc length** of the shaded region.

