**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. In the circle to the right, , , and .



 Determine if  is tangent to the circle.

 Show work and explain.



22. In the picture to the right, .

 What is the relationship between

  and ?

23.  and  are tangent. The measure of . Find the measure of .

 

24.  25.  , 

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

