Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_

Geometry B - Chapter 12 – HW #8 Solving for Angles Period: \_\_\_\_\_\_\_\_\_\_

Use the diagram below to answer questions 1 – 5. DRAW THE DIAGRAM FOR EACH and SHOW ALL FORMULAS!

 

1. If and , find . \_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. If and , find . \_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. If  and , find . \_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. If  and , find . \_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. If  is 3 : 6 : 9 : 6, find . \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Use the diagram to answer questions 6 – 10.

Tangents  and  intersect at P.

Show all formulas!

6. If , find . \_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. If , find . \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. If  and , find = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. If , find . \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. If , find . \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Use the diagram to answer questions 11 – 15.

Chords  and  intersect at E.

11. If  and , find . \_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. If  and , find = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. If  and , find . \_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. Solve for x: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 15. If  , find m<BAE.



16. If , find the measure of each of the following:

 <BAF \_\_\_\_\_\_\_\_\_\_\_\_\_

 <BAE \_\_\_\_\_\_\_\_\_\_\_\_\_