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

Geometry B - Chapter 12 – HW #9 Practice of Theorems Period: \_\_\_\_\_\_\_\_\_\_\_\_

Read each question carefully and place your answers on the lines provided.

1. Find the perimeter of the triangle below. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



8

22

10

2. In the diagram below, and , find AE. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



3. In the diagram below and =36, find  \_\_\_\_\_\_\_\_\_\_\_



 \_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_

4. In the diagram of Circle O, , find the measure \_\_\_\_\_\_\_\_\_\_\_

of minor arc .



5. In the circle below is 1 : 4 : 10 : 3. Find  \_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_

6. In Circle C, AC = 12, AB = 35, and  is tangent to the circle. \_\_\_\_\_\_\_\_\_\_\_

 Find the length of .

7. In Circle O, the ratio of  to  is 4 : 5. Find each  \_\_\_\_\_\_\_\_\_\_\_

  \_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_



8. Find the length of  if AB = 16 and BC = 4. \_\_\_\_\_\_\_\_\_\_\_





9. Secants  are drawn. If  and , find . \_\_\_\_\_\_\_\_\_\_\_

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

11. In Circle O, , if  find . \_\_\_\_\_\_\_\_\_\_\_



12. If AB = 32 and OB = 20, find the length of OC. \_\_\_\_\_\_\_\_\_\_\_

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



14. In the diagram below, find  if  and . \_\_\_\_\_\_\_\_\_\_\_



15. If AD = 8, DE = 10, and AB = 9, find the length of BC. \_\_\_\_\_\_\_\_\_\_\_



16. Solve for x and y. x = \_\_\_\_\_\_\_\_\_\_\_

 y = \_\_\_\_\_\_\_\_\_\_\_

2y

14x

3y - 15

4x