Geometry Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**HOMEWORK - Circle Vocabulary and Central Angles** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­­\_

*For problems 1 - 8, refer to M.*



1. Name the center of the circle. \_\_\_\_\_\_
2. Name a chord that is also a diameter. \_\_\_\_\_\_
3. If MD = 5, find RI. \_\_\_\_\_
4. Is  a chord of **M? \_\_\_\_ What is it? \_\_\_\_\_\_\_\_\_
5. Is ? \_\_\_\_\_ Why? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Name four radii of **M. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. If RI = 11.8, find MA. \_\_\_\_\_\_\_
8. Draw . What type of triangle is ΔMAR? \_\_\_\_\_\_\_\_\_ Explain. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

*For problems 9 – 13, refer to E. If m = 21˚ and  is a diameter,* ***determine whether each arc is a minor arc, major arc, or a semicircle****. Then,* ***find the degree measure*** *of each arc.*

 Minor, major, or semicircle Arc measure

 **9.** TG \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_

 **10.** ATR \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_

 **11.** TAR \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_

 **12.** ARG \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_

 **13.** AR \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_

In **P, m**1 = m**2*,* m**1 = 9x + 5, m**2 = 4x + 35 with diameters  and . Find each of the following.

 **14.** x = \_\_\_\_\_ **15.** m**3 = \_\_\_\_\_

 **16.** m**CPB = \_\_\_\_\_ **17.** m AE = \_\_\_\_\_

 **18.** m EC = \_\_\_\_\_ **19.** m CBE = \_\_\_\_\_