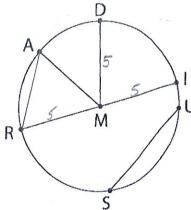
HOMEWORK - Circle Vocabulary and Central Angles

Date:

For problems 1 - 8, refer to $\bigcirc M$.

- 1. Name the center of the circle. OM
- 2. Name a chord that is also a diameter. RI
- 3. If MD = 5, find RI. _/O__
- 4. Is MI a chord of OM? No What is it? Radius
- 5. Is MA = MI? yes Why? They are both radii
- Name four radii of ⊙M. MR, MA, MD, MT
 If RI = 11.8, find MA. 2 = 5.9



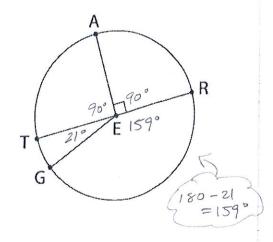
8. Draw AR. What type of triangle is DMAR? Isosceles Explain. Am and RM are both radii of DM so they are congruent to each other. Therefore, AMAR has 2 congruent sides making it an isosceles A.

For problems 9 - 13, refer to $\odot E$. If m $\angle TEG = 21^{\circ}$ and \overline{TR} 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 MINOC
- 210
- 10. ATR Major
- 270"
- 11. TAR Semicorde
- 12. ARG Major
- Minor



In $\bigcirc P$, m $\angle 1 = m \angle 2$, m $\angle 1 = 9x + 5$, m $\angle 2 = 4x + 35$ with diameters \overline{AC} and \overline{BD} . Find each of the following. 9x+5=4x+35

- 14. x = 6
- 5X=30
 - x=6 15. m∠3 = 62*



- 16. m∠CPB = 1/8°
- 17. $m\widehat{AE} = 59^{\circ}$

- 18. m EC = 121° 59°+62°
- 19. m CBE = 239°

