Geometry

April 6th to 10th Assignments Mr. Weinert

(thanks to Ms. Dodson)

Reading:

Chapter 10.1 pg 530 – 533 and Chapter 10.2 pg 538 -541

Please submit the following assignments using Clever, Email photo, or those without internet access may submit paper copy to main office. Hardcopies will not be graded immediately as a precaution.

IMPORTANT: All assignments emailed or turned in must include First and Last Name, Course Name, Class Period.

Assignment from the book or available on Clever/Big Ideas:

- 1. Clever only: Check-in assignment. Due Wednesday 10/8!
- 2. p. 534 #5-10, 19-22, 29
- 3. p. 542 #5-16

Quiz from the book or on Clever/Big Ideas:

p. 582 #1-6, 12-16

Video Tutorials from Clever/Big Ideas:

Chapter 10.1

<u>Ex 1</u> <u>Ex 2</u> <u>Ex 3</u> Chapter 10.2 <u>Ex 1</u> Ex 2

Chapter 10.1 Notes and Practice

Ex 1

Tell whether the line, ray, or segment is best described as a *radius*, *chord*, *diameter*, *secant*, or *tangent* of $\bigcirc O$.



- a. **PR** diameter
- **b.** \overrightarrow{MN} tangent
- **c.** \overrightarrow{PQ} secant
- d. QO radius







SOLUTION

Use the Converse of the Pythagorean Theorem (Theorem 9.2). Because $12^2 + 35^2 = 37^2$, $\triangle PTS$ is a right triangle and $\overline{ST} \perp \overline{PT}$. So, \overline{ST} is perpendicular to a radius of $\bigcirc P$ at its endpoint on $\bigcirc P$.



\overline{JH} is tangent to $\odot L$ at H, and \overline{JK} is tangent to $\odot L$ at K. Find the value of x.



Because both tangent lines meet at the same point outside the circle the tangent segments are congruent.

7x - 23 = 61 7x - 23 + 23 = 61 + 23 7x = 84 x =12 Chapter 10.2 Notes and Practice

Ex 1

Find the measure of each arc of $\odot C$, where \overline{AB} is a diameter.



Recall that the central angle is congruent to the arc. Angle ACD is congruent the arc AD.

- a. \widehat{AD} 65° b. \widehat{DAB} 245°
- **c.** *BDA* 180°
- Ex 2

Find the measure of each arc.



Recall that a circle is 360 degrees, semicircle is 180, and a quarter of a circle is 90 degrees.

