NAME Andrew Garber DATE May 26 PERIOD _____

Chapter 10 Mid-Chapter Test

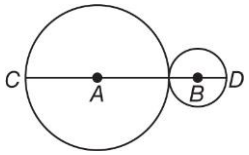
SCORE 9/10 90%

(Lessons 10-1 through 10-4)

Part I ***Write the letter for the correct answer in the blank at the right of each question.***

1. What is the name of the longest chord in a circle?
A diameter **B** radius **C** secant **D** tangent
1. A

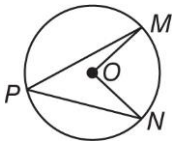
2. The radius of $\odot B$ is 4 centimeters and the circumference of $\odot A$ is 20π centimeters. Find CD.
F 10 cm **H** 24 cm
G 14 cm **J** 28 cm



2. J

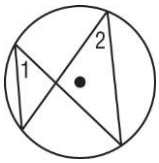
3. A chord of $\odot P$ measures 8 inches and the distance from the center to the chord is 3 inches. Find the radius of $\odot P$.
A 3 in. **B** 5 in. **C** $\sqrt{73}$ in. **D** 10 in.
3. B

4. If $m\angle MON = 86$, find $m\angle MPN$.
F 86 **H** 43
G 45 **J** 30



4. H

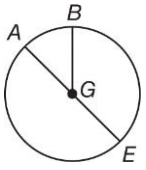
5. Find x if $m\angle 1 = 2x + 10$ and $m\angle 2 = 3x - 6$.
A 4 **C** 24
B 16 **D** 42



5. B

Part II

6. $\overline{AE}$ is a diameter of $\odot G$ and $m\angle BGE = 136$. Find $m\widehat{AB}$.



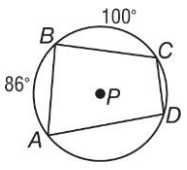
6. 44 degrees

7. A circle with a radius of 12 inches has an arc that measures 8π inches. Find the measure of the central angle determined by this arc.
7. 120 degrees

8. In $\odot P$, chord $\overline{AB}$ measures $4x - 6$ centimeters and chord $\overline{CD}$ measures $6x - 12$ centimeters. If $\overline{AB}$ and $\overline{CD}$ are each 4 centimeters from P, find AP.
8. 5

9. A 15-inch by 8-inch tablecloth is placed on a circular table. Each of the four corners of the tablecloth touch the edge of the table. Determine the radius of the table.
9. 8.5in

10. Quadrilateral $ABCD$ is inscribed in $\odot P$. Find $m\angle ABC$.



10. 93 degrees?

87 degrees