

(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. _____

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. _____



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. _____

4. If
- $m\angle MON = 86^\circ$
- , find
- $m\angle MPN$
- .

F. 86° H. 43°
G. 45° J. 30°

4. _____



5. Find
- x
- if
- $m\angle 1 = 2x + 10$
- and
- $m\angle 2 = 3x - 6$
- .

A. 4 C. 24
B. 16 D. 42

5. _____

**Part II**

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

6. _____



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. _____

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. _____

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. _____

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

10. _____



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Daniel F McAuley



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