

Geometry District Assessment 9 Review

(Links to State Standard GE 21.0 and 17.0)

(Use after Ch. 10)

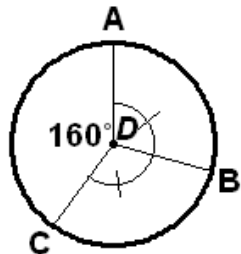
Name _____

Date _____ Period _____

GE 21.0* Students prove and solve problems regarding relationships among chords, secants, tangents, inscribed angles, and inscribed and circumscribed polygons of circles. AND

GE 17.0* Students prove theorems by using coordinate geometry, . . . various forms of equations of lines and circles.

1. Find the measure of each arc of circle D .



1. a. $mAC =$

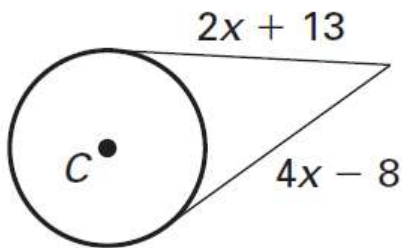
b. $mAB =$

c. $mABC =$

d. $mACB =$

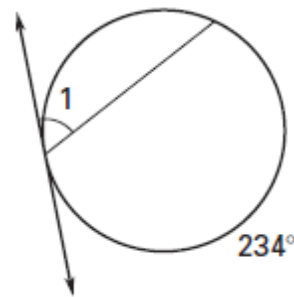
For question 2 through 8, find the indicated measure. Show any calculations.

2.



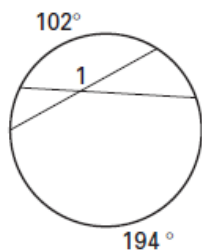
$x =$ _____

3.



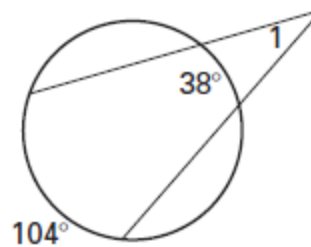
$m\angle 1 =$ _____

4.



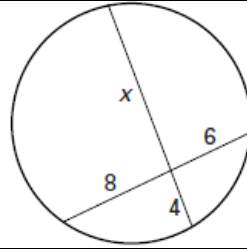
$m\angle 1 =$ _____

5.



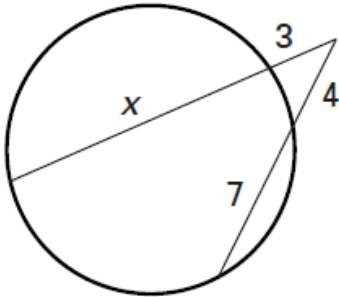
$m\angle 1 =$ _____

6. Find the value of x .



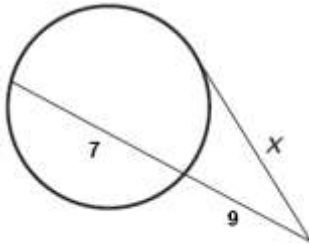
6. $x =$ _____

7. Find the value of x .



7. $x =$ _____

8. Find the value of x .



8. $x =$ _____

9. What is the center and radius of the circle with the equation $(x - 3)^2 + (y + 7)^2 = 81$?

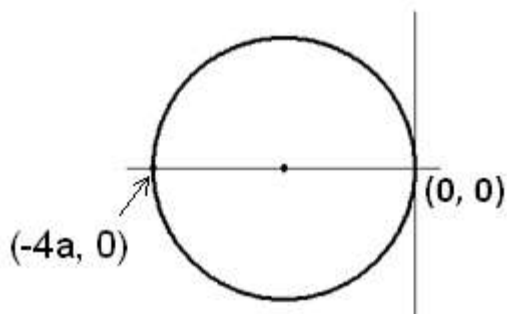
9. center _____

radius _____

10. What is the equation for a circle with center at $(-1, +2)$ and a radius of 12?

10. _____

11 and 12 refer to the diagram shown.



11. What are the coordinates of the center?

12. What is the equation of the circle?