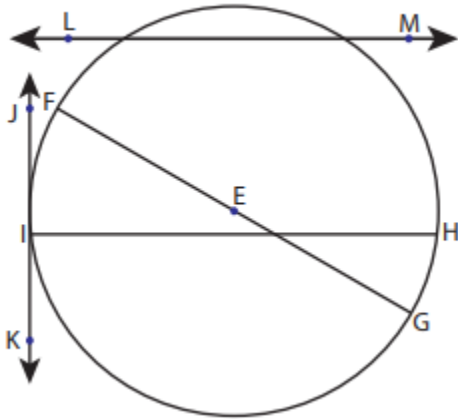


1. Use the picture below to answer the following.



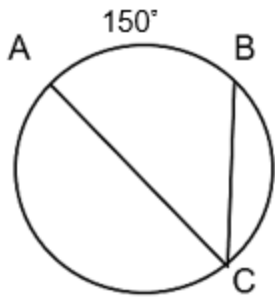
A. Circle: _____ B. Radius: _____ C. Diameter: _____

D. Chord: _____ E. Secant: _____ H. Minor Arc: _____

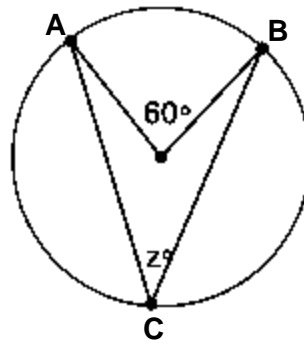
F. Point of Tangency: _____ G. Tangent: _____

I. Major Arc: _____ J. If $FE = 6$, what is the length of GF ? _____

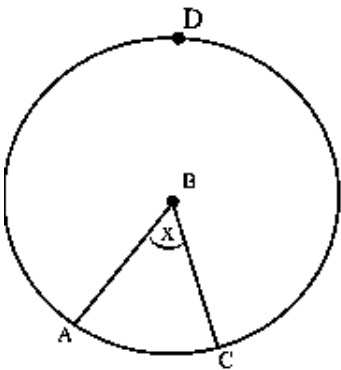
2. What is the measure of $\angle C$?



3. What is the measure of $\angle z$ and arc AB ?



4. The measure of arc $ADC = 290^\circ$. Find the measure of x .

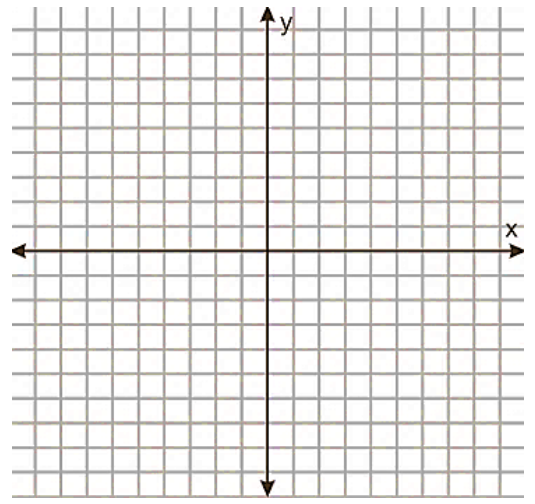


5. Given the equation of the circle: $(x + 2)^2 + (y - 5)^2 = 100$, identify the center and the radius.

6. **Graph** the following equation: $(x + 1)^2 + (y + 4)^2 = 9$ and **find the center and radius.**

Center: _____

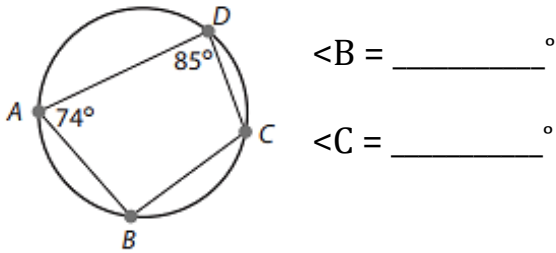
Radius: _____



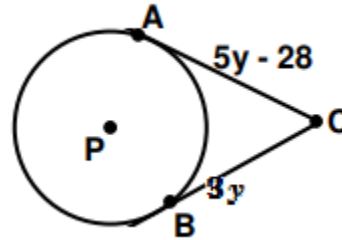
7. a) Write the circle equation $x^2 + y^2 - 6x + 4y - 3 = 0$ in standard form.

- b) Identify the following: Center: _____ Radius: _____

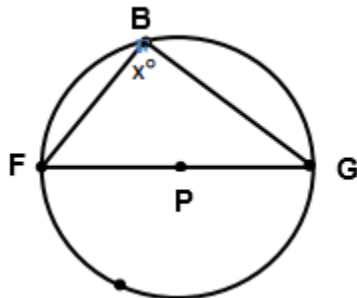
8. Find the missing angles.



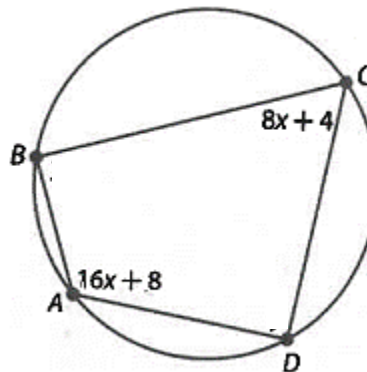
9. Find the length of AC.



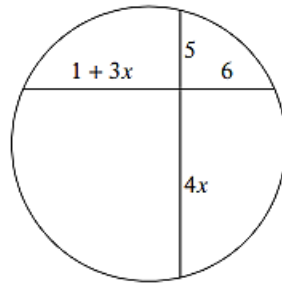
10. Find x .



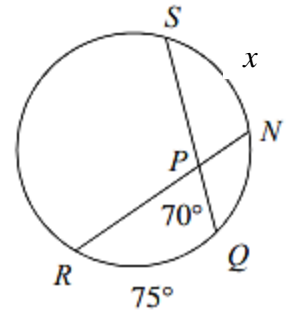
11. Solve for x .



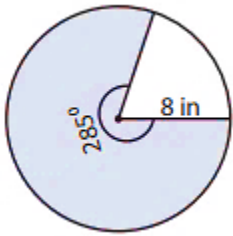
12. Solve for x .



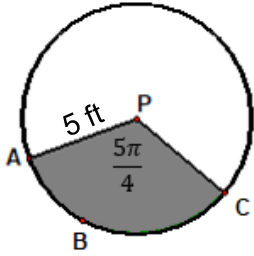
13. Solve for x .



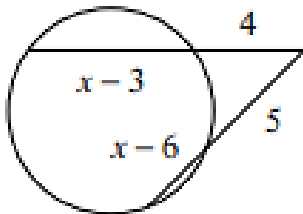
14. Find the **arc length** of the shaded region. Round to the nearest hundredths place.



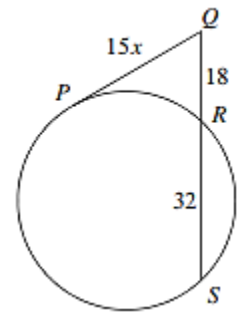
15. Find the **area of sector** of the shaded region. Round to the nearest hundredths place.



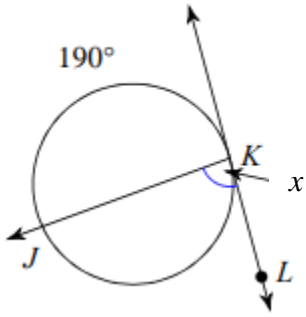
16. Solve for x .



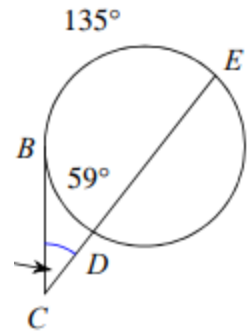
17. Solve for x .



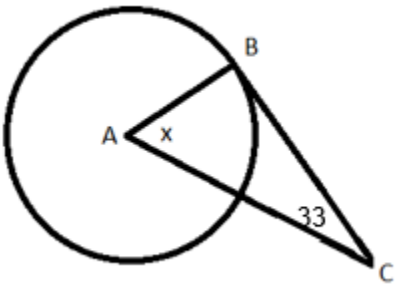
18. Find the measure of x .



19. Solve for $\angle C$.



20. \overline{BC} is a tangent to circle A. Find the measure of x given $m\angle C = 33^\circ$.



21. AB is tangent to Circle C. Find x .

