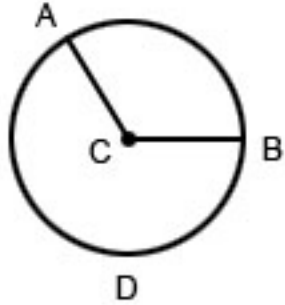
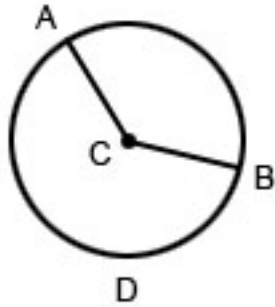


Algebra 2
Writing Assignment: Geometry of Circles
Each problem is worth 5 Points
Total Points: 50

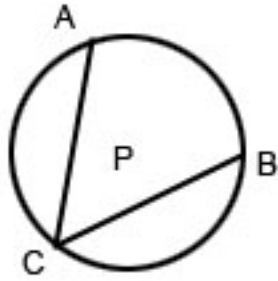
1) Point C is the center of the circle. What is the measure of $\angle ACB$ if $m\widehat{AB}$ is equal to 102° ?



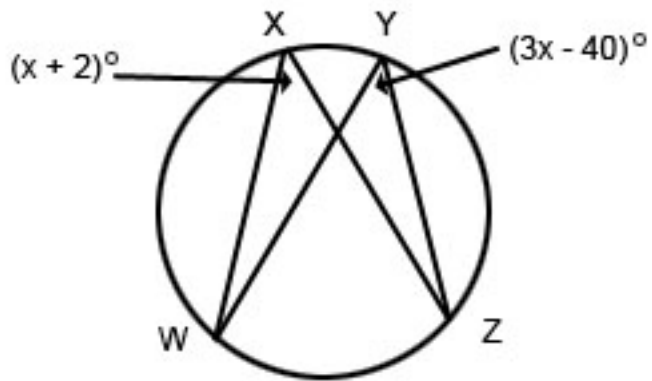
2. Point C is the center of the circle. What is the measure of $\angle ACB$ if $m\widehat{ADB}$ is equal to 302° ?



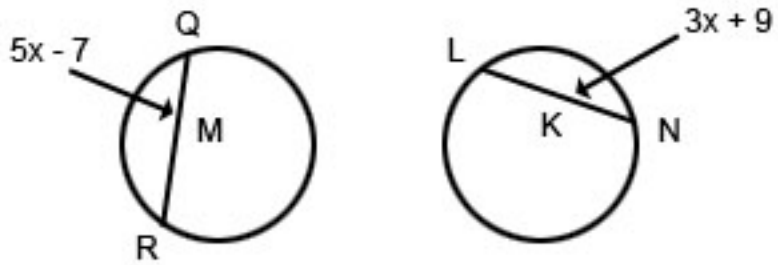
3. Angle ACB is an inscribed angle of circle P. Find x if angle ACB measures x° and arc ACB measures $(x + 45)^\circ$.



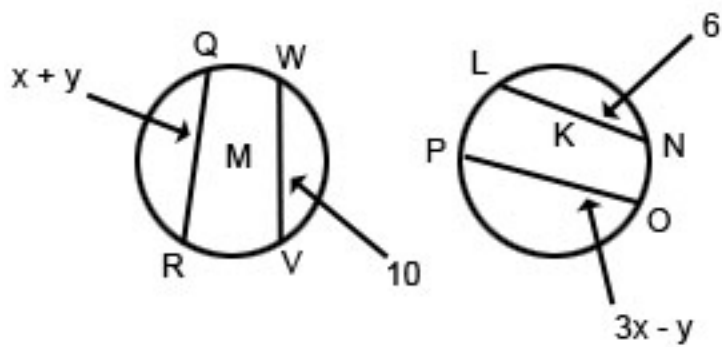
4) Find x .



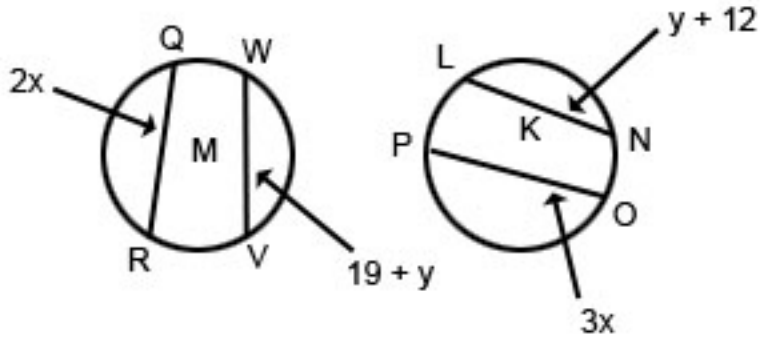
5) Circles M and K are congruent and $\widehat{QR} \cong \widehat{LN}$. Find QR.



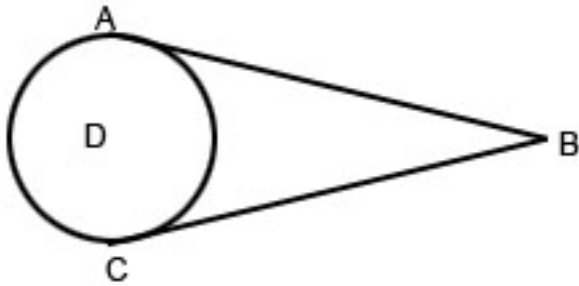
6) Circles M and K are congruent, $\widehat{QR} \cong \widehat{LN}$ and $\widehat{OP} \cong \widehat{VW}$. Find x and y.



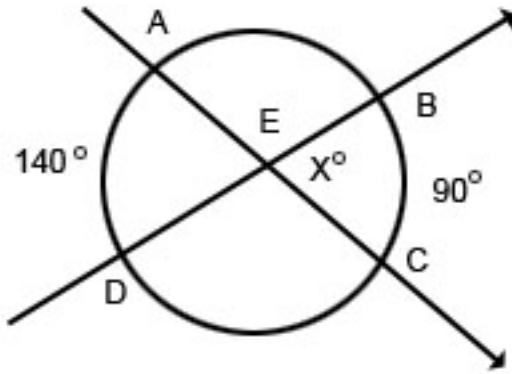
7) Circles M and K are congruent, $\widehat{QR} \cong \widehat{LN}$ and $\widehat{OP} \cong \widehat{VW}$. Find y .



8) \overline{AB} and \overline{BC} are tangent to circle D. Find x if $AB = 3x + 2$ and $BC = x + 12$. Find x .



9) Find x .



10) Find angle A if $m\widehat{DE}$ is equal to 53° and $m\widehat{BC}$ is equal to 8° .

