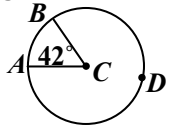
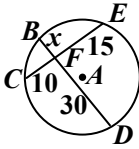


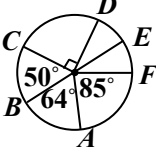
1. Given the central angle, what is the $m\widehat{AB}$?



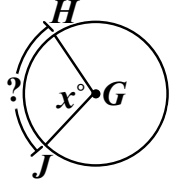
6. In circle A, chords \overline{BD} and \overline{CE} intersect at point F. The lengths in feet of each segment are shown. What is the length of \overline{BF} ?



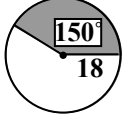
2. Given the circle, what is the $m\widehat{DF}$?



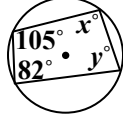
7. In circle G, central angle $\angle HGJ$ measures x degrees. What would describe the measure of \widehat{HJ} ?



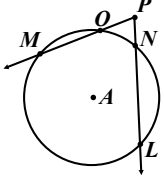
3. Determine the area of the sector in terms of pi.



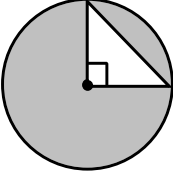
8. A quadrilateral is inscribed in a circle. Determine the value of x and y .



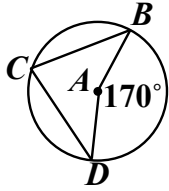
4. If $m\widehat{ML} = 162^\circ$ & $m\widehat{ON} = 24^\circ$, what is the $m\angle MPL$?



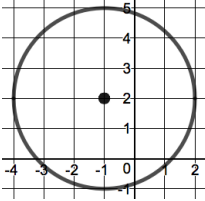
9. A triangle is created by the radii of the circle. If the radius of the circle is 4 centimeters, what is the area of the shaded region? Write your answer in terms of pi.



5. The endpoints of radii \overline{BA} and \overline{DA} in a circle form an angle with point C. What is the measure of $\angle BCD$?



10. What is the equation of the circle shown in the following graph?



Answers

1. 42°	2. 71°	3. 135π	4. 69°	5. 85°
6. 5	7. x	8. $x = 98^\circ$ & $y = 75^\circ$	9. $16\pi - 8$	10. $(x + 1)^2 + (y - 2)^2 = 9$

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