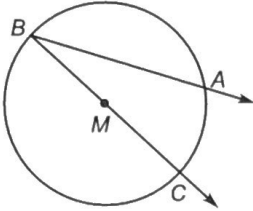


Practice

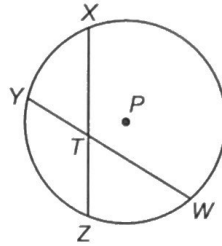
Inscribed Angles

Determine whether each angle is an inscribed angle.
Name the intercepted arc for the angle.

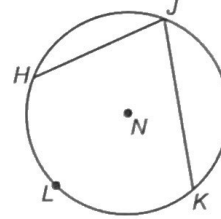
1. $\angle ABC$



2. $\angle XTW$



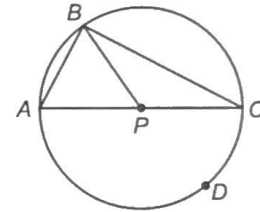
3. $\angle HJK$



In $\odot P$, $m\widehat{AB} = x$ and $m\widehat{BC} = 3x$. Find each measure.

4. $m\widehat{ADC}$

5. $m\angle ABC$



6. $m\widehat{AB}$

7. $m\angle A$

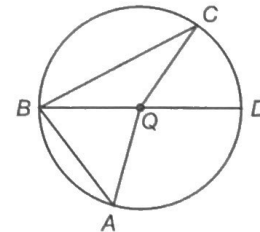
8. $m\widehat{BC}$

9. $m\angle C$

In $\odot Q$, $m\angle ABC = 72$ and $m\widehat{CD} = 46$. Find each measure.

10. $m\widehat{CA}$

11. $m\widehat{BC}$



12. $m\widehat{AD}$

13. $m\angle C$

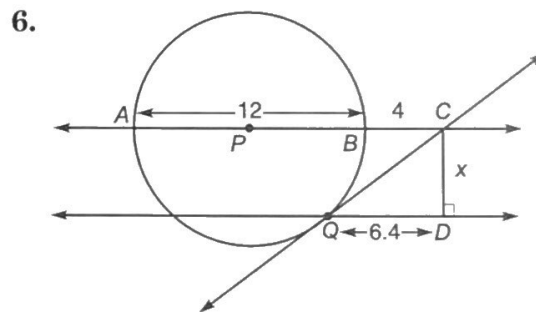
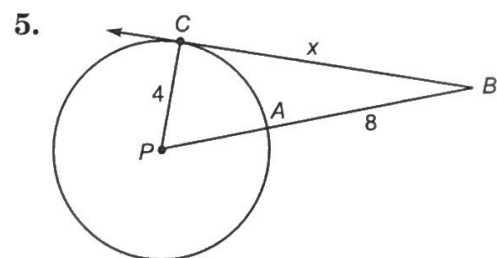
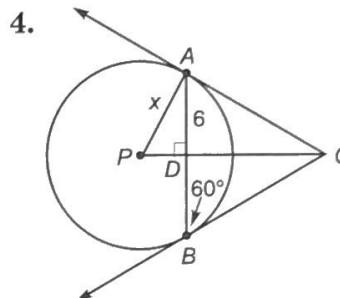
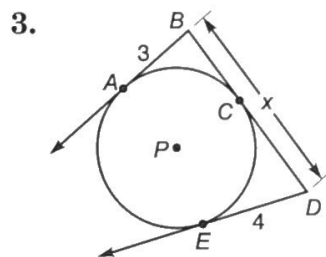
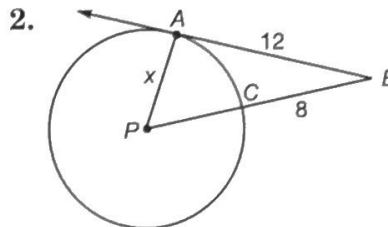
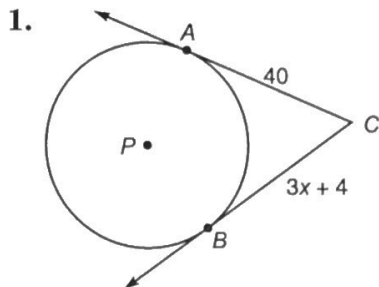
14. $m\angle ABD$

15. $m\angle A$

Practice

Tangents to a Circle

For each $\odot Q$, find the value of x . Assume segments that appear to be tangent are tangent.

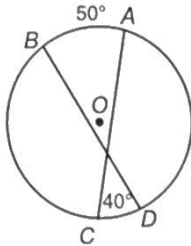


Practice

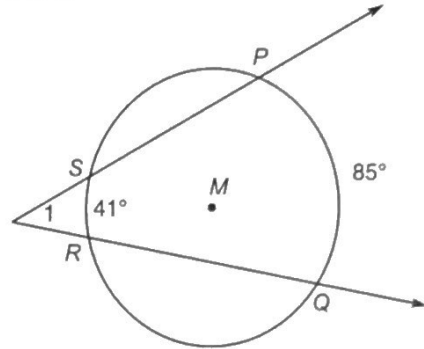
Secant Angles

Find each measure.

1. $m\widehat{CD}$



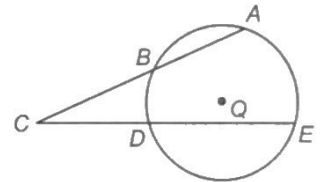
2. $m\angle 1$



In $\odot Q$, $m\widehat{AE} = 140$, $m\widehat{BD} = y$, $m\widehat{AB} = 2y$, and $m\widehat{DE} = 2y$.
Find each measure.

3. $m\widehat{BD}$

4. $m\widehat{AB}$



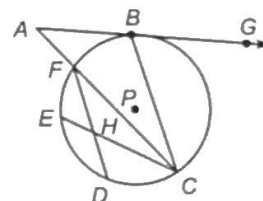
5. $m\widehat{DE}$

6. $m\angle BCD$

Practice

Secant-Tangent Angles

In $\odot P$, $m\widehat{BC} = 4x - 50$, $m\widehat{DE} = x + 25$, $m\widehat{EF} = x - 15$, $m\widehat{CD} = x$, and $m\widehat{FB} = 50$. Find the measure of each angle. Assume lines that appear to be tangent are tangent.



1. $m\angle A$

2. $m\angle BCA$

3. $m\angle ABC$

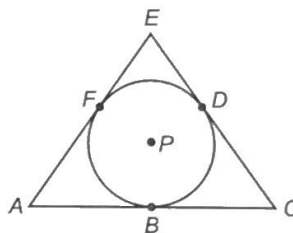
4. $m\angle GBC$

5. $m\angle FHE$

6. $m\angle CFD$

In $\odot P$, $m\angle A = 62$ and $m\widehat{BD} = 120$. Find the measure of each angle.

7. $m\angle C$

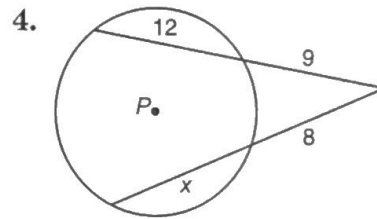
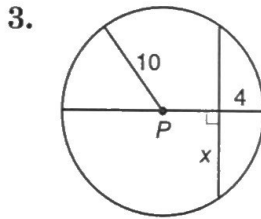
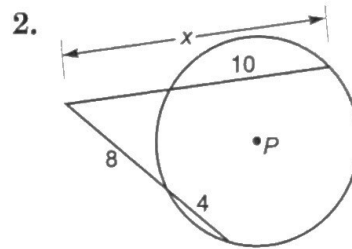
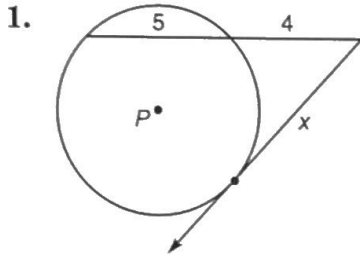


8. $m\angle E$

Practice

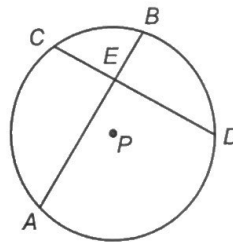
Segment Measures

In each circle, find the value of x . If necessary, round to the nearest tenth. Assume segments that appear to be tangent are tangent.



In $\odot P$, $CE = 6$, $CD = 16$, and $AB = 17$. Find each measure.

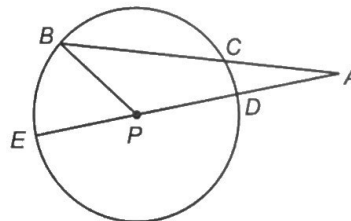
5. EB



6. AE

In $\odot P$, $AC = 3$, $BC = 5$, and $AD = 2$. Find each measure.

7. PD



8. ED

9. PB

Practice

Equations of Circles

Find the coordinates of the center and the measure of the radius for each circle whose equation is given.

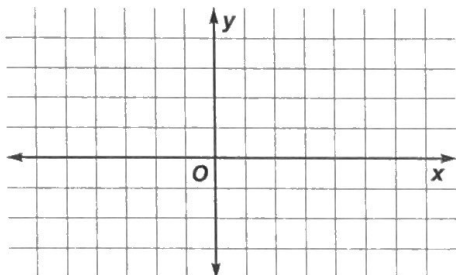
1. $(x - 3)^2 + (y + 1)^2 = 16$

2. $(x + \frac{5}{8})^2 + (y + 2)^2 = \frac{25}{9}$

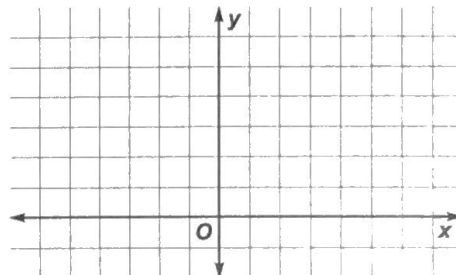
3. $(x - 3.2)^2 + (y - 0.75)^2 = 40$

Graph each equation on a coordinate grid.

4. $(x - 2)^2 + y^2 = 6.25$



5. $(x + 3)^2 + (y - \frac{3}{2})^2 = 4$

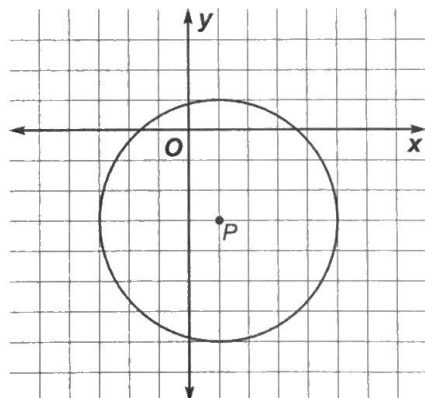


Write the equation of circle *P* based on the given information.

7. center: $P(0, \frac{1}{2})$
radius: 8

8. center: $P(-5.3, 1)$
diameter: 9

9.

10. a diameter whose endpoints are at $(5, -7)$ and $(-2, 4)$