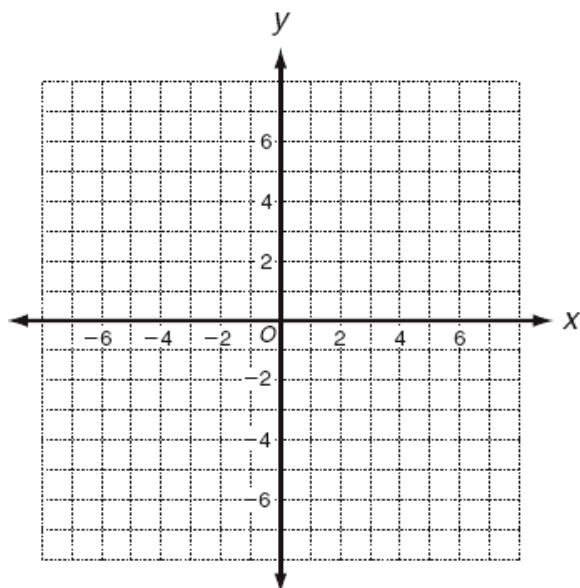
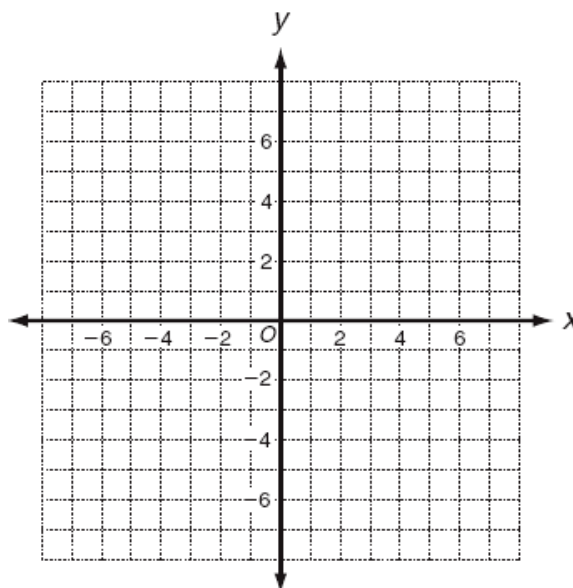


Identify the center and radius of each circle and sketch the circle.

1. $(x-3)^2 + y^2 = 25$



2. $(x+2)^2 + (y+3)^2 = 9$



Write the equation of each circle.

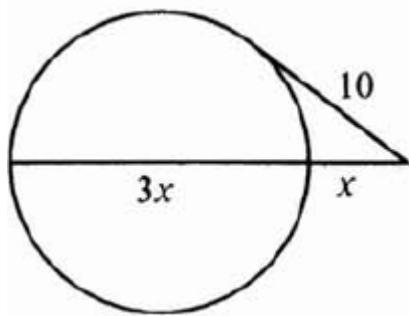
3. circle with center $(4, -1)$ and radius 7

4. circle that passes through $(2, 3)$ and has center $(2, -1)$

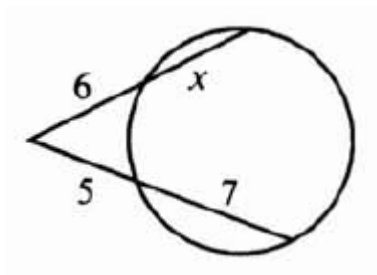
5. circle that passes through $(5, 6)$ and has center $(3, 4)$

Solve each problem for x .

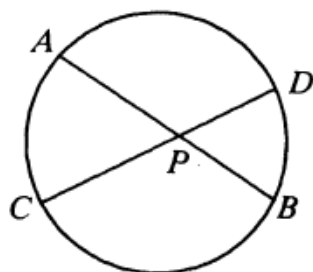
6.



7.



8. $AP = 5$, $BP = 4$, $CD = 12$, $CP = x$



9. $m\widehat{AD} = x^\circ$; $m\angle BAD = \underline{\hspace{2cm}}$, $m\angle B = \underline{\hspace{2cm}}$, $m\angle C = \underline{\hspace{2cm}}$

