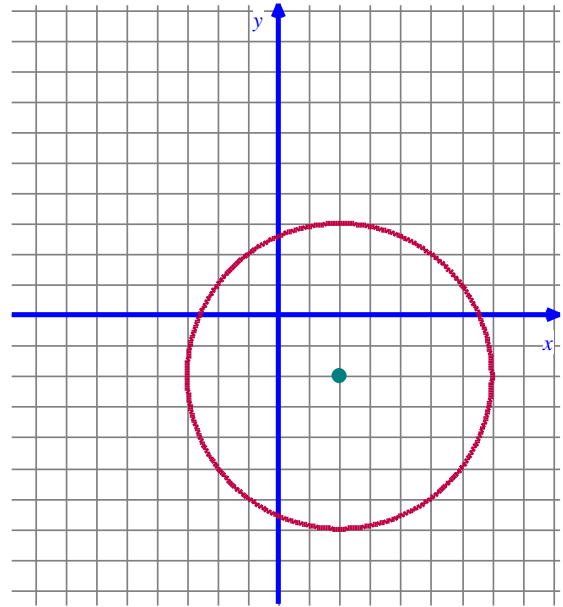
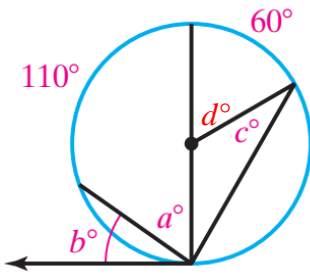


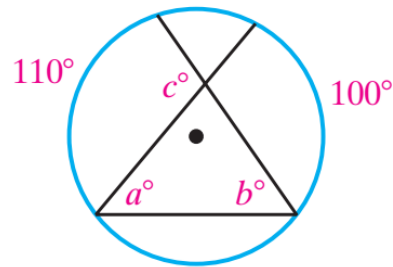
- 1) Circle and Lines:
- Graph:  $x^2 + y^2 = 1$
  - Graph:  $(x + 2)^2 + (y - 7)^2 = 9$
  - Find the equation of the circle shown:
  - Graph:  $x - 3y = 9$
  - Challenge: Find the equation of the line that is tangent to circle graphed at the point  $(6, 1)$ .  
Hint: Draw the radius to  $(6, 1)$  first.



- 2) Find the value of each variable:



- 3) Find the value of each variable:



- 4) On the circle at right...
- Label the center  $A$
  - Draw a point on the circle and name it  $B$ , then draw a radius from  $A$  to  $B$ .
  - Draw a chord on the circle from  $B$  to a new point called  $C$ .
  - Draw a line tangent to the circle that passes through  $C$ .

- 5)

