

# EXTRA PRACTICE — Exercises

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## Unit IX – The Conic Sections

### Part B – Circles

### Lesson 1 – Circles - Standard Form

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Graph the solution set circle for each of the following second-degree equations. In addition, identify the center and the radius.

1.  $x^2 + y^2 = 9$

2.  $(x + 1)^2 + (y + 3)^2 = 4$

3.  $x^2 + y^2 = 18$

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

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

# EXTRA PRACTICE — Answer Key

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## Unit IX – The Conic Sections

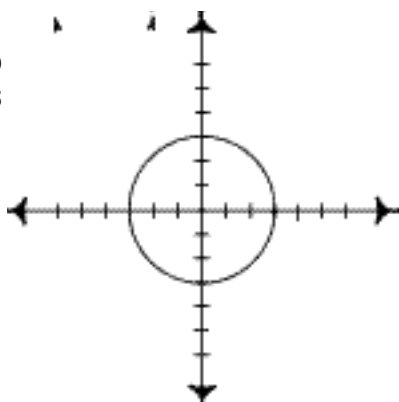
### Part B – Circles

### Lesson 1 – Circles - Standard Form

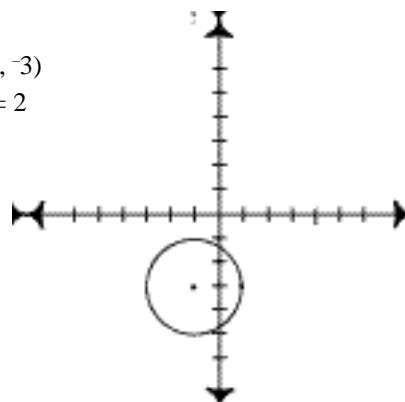
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Graph the solution set circle for each of the following second-degree equations. In addition, identify the center and the radius.

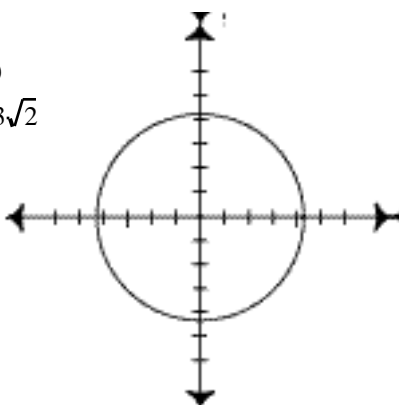
1. center  $(0, 0)$   
radius:  $r = 3$



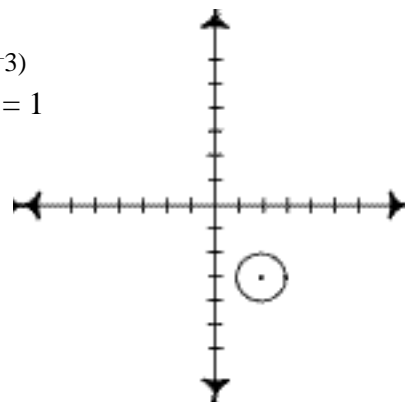
2. center  $(-1, -3)$   
radius:  $r = 2$



3. center  $(0, 0)$   
radius:  $r = 3\sqrt{2}$



4. center  $(2, -3)$   
radius:  $r = 1$



5. center  $(3, 0)$   
radius:  $r = 4$

