

EXTRA PRACTICE — Exercises

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Unit IX – The Conic Sections

Part B – Circles

Lesson 2 – Circles - Not Standard Form

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

1. $x^2 + y^2 + 8x - 6y - 15 = 0$

2. $x^2 + y^2 - 8x + 2y + 13 = 0$

3. $x^2 + y^2 + 6x - 4y - 15 = 0$

4. $x^2 + y^2 + 10y - 75 = 0$

5. $x^2 + y^2 + 6x + 4y + 12 = 0$

EXTRA PRACTICE — Answer Key

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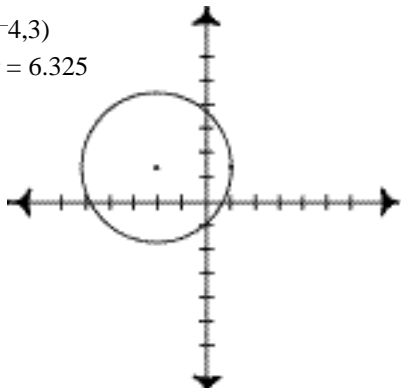
Unit IX – The Conic Sections

Part B – Circles

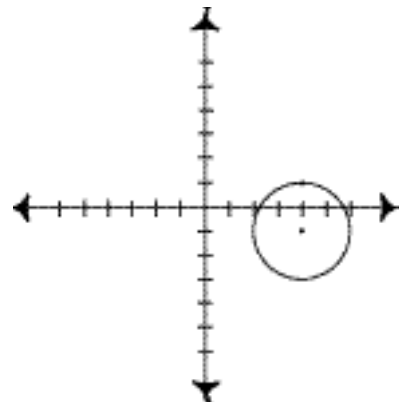
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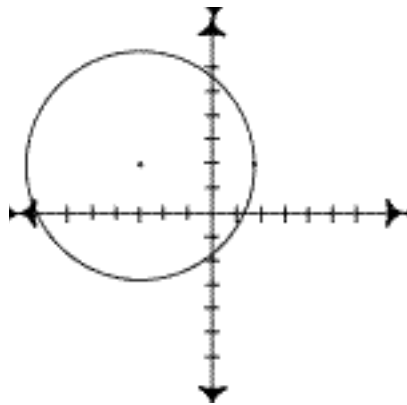
1. center $(-4,3)$
radius: $r = 6.325$



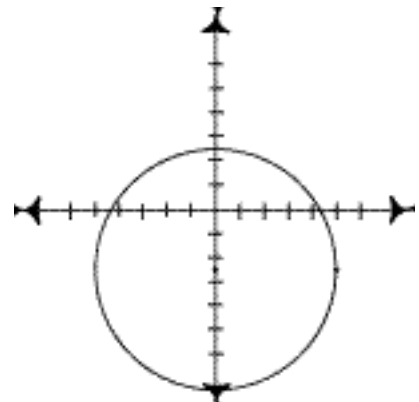
2. center $(4,-1)$
radius: $r = 2$



3. center $(-3,2)$
radius: $r = 2\sqrt{7}$



4. center $(0,-5)$
radius: $r = 10$



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

