Unit IX – The Conic Sections
Part B – Circles
Lesson 1 – Circles - Standard Form

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

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

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

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

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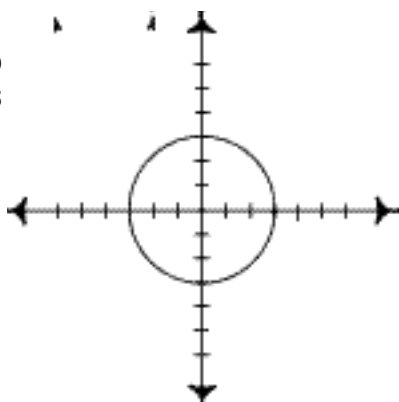
5. $(x-3)^2 + y^2 = 16$

Unit IX – The Conic Sections
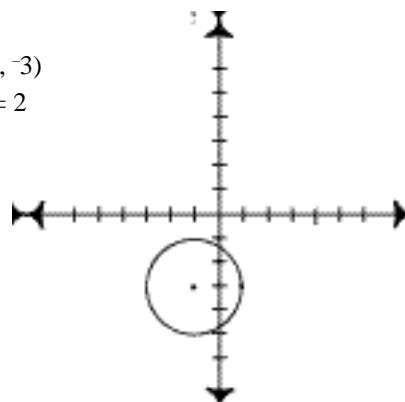## Part B – Circles
Lesson 1 – Circles - Standard Form

Graph the solution set circle for each of the following second-degree equations. In addition, identify the center and the radius.
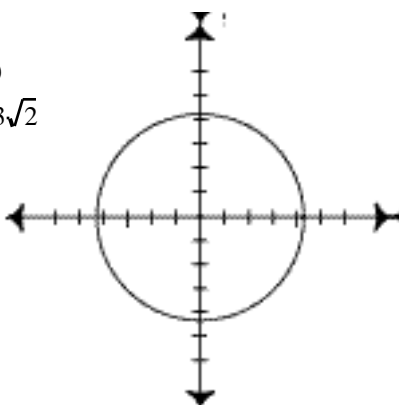
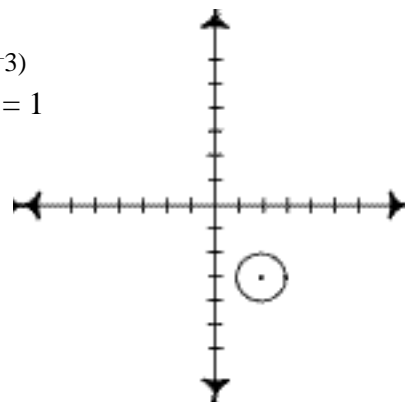1. center $(0, 0)$
   radius: $r = 3$

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: $r = 4$