Skills Practice: Converting General Form to Standard Form.

Directions: Write each circle in Standard Form by completing the square. Then state the center and radius.

1. $x^2 + y^2 + 6x - 6y - 31 = 0$

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

3. $x^2 + y^2 + 16x - 14y + 97 = 0$

4. $x^2 + y^2 + 20x + 12y + 120 = 0$

5. $x^2 + y^2 - 22x + 4y + 89 = 0$

6. $x^2 + y^2 - 16x - 6y + 48 = 0$

7. $x^2 + y^2 - 16x - 14y + 77 = 0$

8. $x^2 + y^2 + 12x - 14y - 15 = 0$

Answers to Converting General Form to Standard Form Skills Practice:

1. $(x + 3)^2 + (y - 3)^2 = 49$
2. $(x + 1)^2 + (y + 5)^2 = 36$
3. $(x + 8)^2 + (y - 7)^2 = 16$
4. $(x + 10)^2 + (y + 6)^2 = 16$
5. $(x - 11)^2 + (y + 2)^2 = 36$
6. $(x - 8)^2 + (y - 3)^2 = 25$
7. $(x - 8)^2 + (y - 7)^2 = 36$
8. $(x + 6)^2 + (y - 7)^2 = 100$