

PreCalc
4.2 Circles

Name: _____
Date: _____

Directions: Use Completing the Square (CTS) to change each equation from General to Standard Form. Once the equation is in Standard Form, identify the Center and Radius of each circle.

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

2. $x^2 + y^2 - 14y + 48 = 0$

Center: _____ r = _____

Center: _____ r = _____

3. $x^2 + y^2 - 8x + 6y - 56 = 0$

4. $x^2 + y^2 + 12x + 2y + 21 = 0$

Center: _____ r = _____

Center: _____ r = _____

5. $x^2 + y^2 - 10x + 8y + 5 = 0$

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

Center: _____ r = _____

Center: _____ r = _____

7. $x^2 + y^2 + 5x - 7y + 16 = 0$

8. $2x^2 + 2y^2 - 12x + 8y + 20 = 0$

Center: _____ r = _____

Center: _____ r = _____

9. $x^2 + y^2 - 10x + 6y + 41 = 0$

10. $x^2 + y^2 - 16x + 4y + 72 = 0$

Center: _____ r = _____

Center: _____ r = _____