

Name _____
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Geometry



Finding Center/Radius of a Circle Using Completing the Square

What is the center and radius of the circle with the following equations:

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

2. $x^2 + y^2 + 10x - 4y - 7 = 0$

3. $x^2 + y^2 + 16x + 6y + 1 = 0$

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

$$5. x^2 + y^2 - 4x + 8y + \frac{31}{4} = 0$$

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

$$7. x^2 + y^2 + 6x - 2y = \frac{31}{9}$$

$$8. x^2 + y^2 + 6x - 10y + 4 = 0$$