

## Graphing Circles – General Form

### Unit 7: Circles

For each of the following:

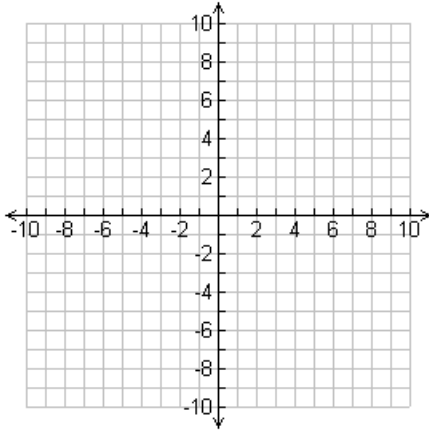
A. Write the equation in standard form.

B. Identify the center of the circle.

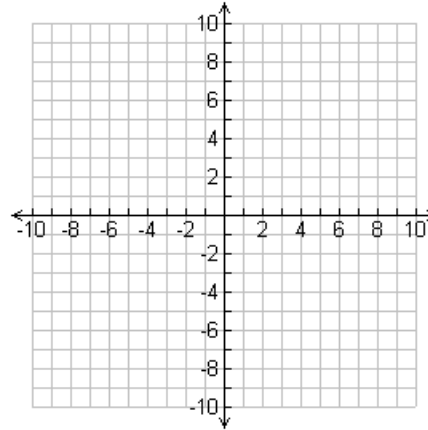
C. Identify the radius of the circle.

D. Graph the circle.

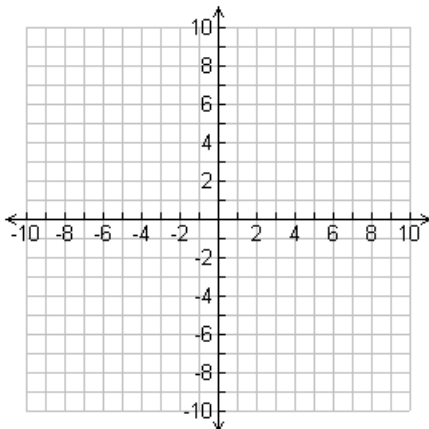
1.  $x^2 + y^2 + 4x + 6y - 36 = 0$



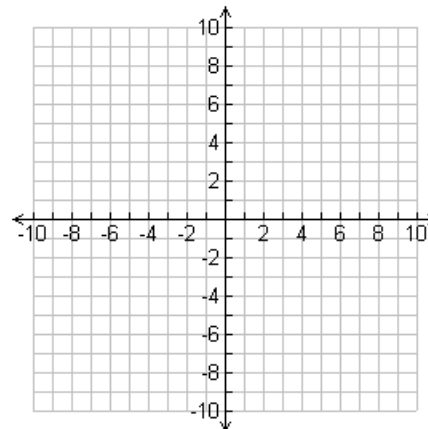
2.  $x^2 + y^2 - 10x + 8y - 23 = 0$



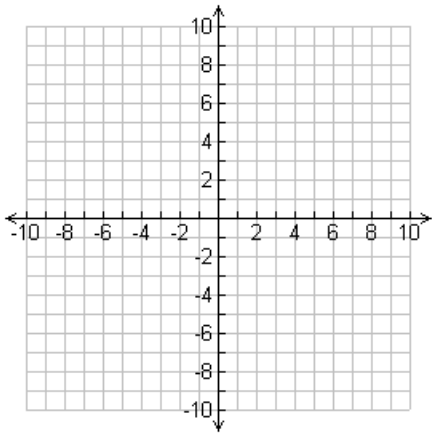
3.  $x^2 + y^2 + 2x - 35 = 0$



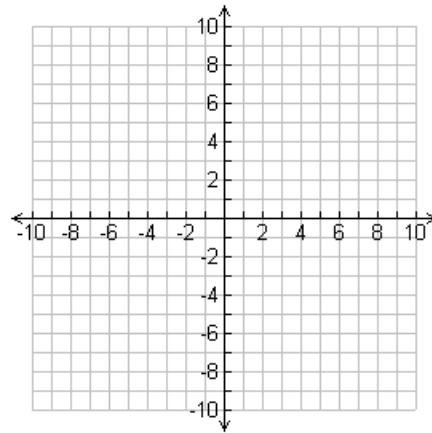
4.  $x^2 + y^2 + 6x - 8y = 0$



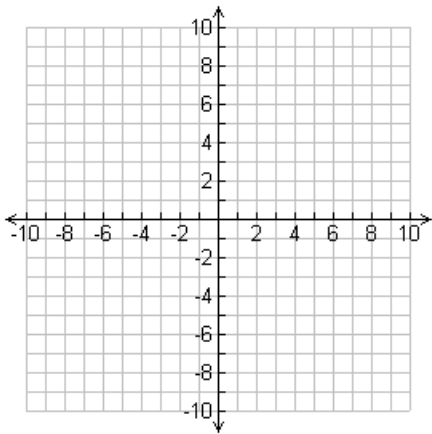
$$5. x^2 + y^2 + 6x - 14y - 12 = 0$$



$$6. x^2 + y^2 - 8x - 4y + 18 = 0$$



$$7. x^2 + y^2 + 2x + 4y = 20$$



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

