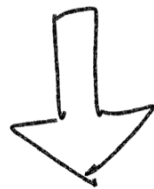


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because . . .

Stop Judging Me



$$(x-h)^2 + (y-k)^2 = r^2$$

$(h, k)$  : center

$$x^2 + y^2 = r^2$$

center  $(0, 0)$

$r$  = radius

Center:  $(9, 4)$

radius: 6

$$(x-9)^2 + (y-4)^2 = 6^2$$

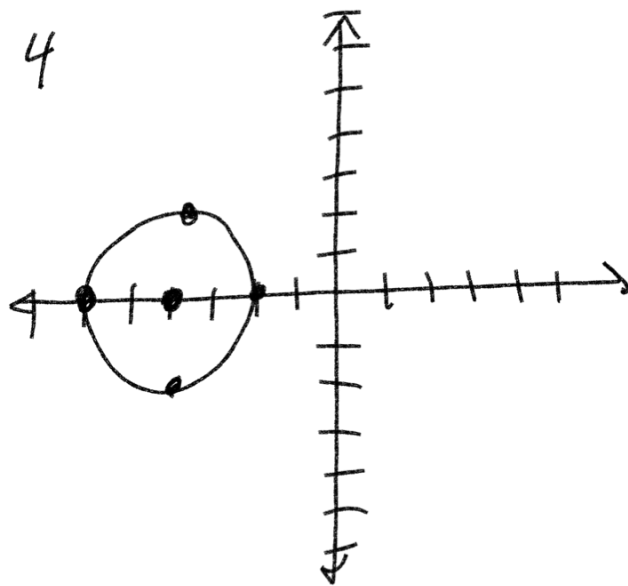
$$(x-9)^2 + (y-4)^2 = 36$$

$$(x+4)^2 + y^2 = 4$$

$$(x+4)^2 + (y+0)^2 = 4$$

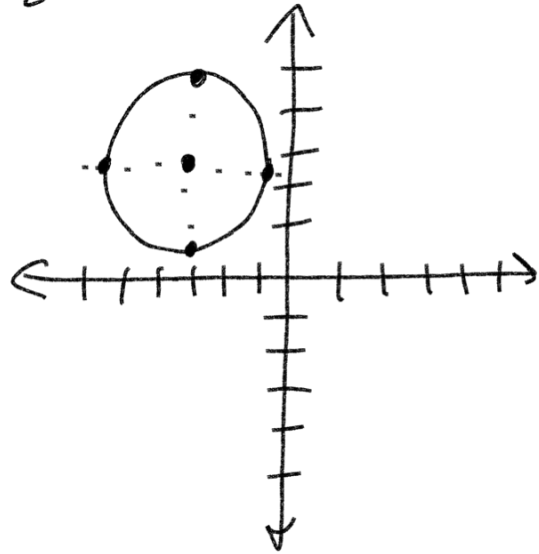
Center:  $(-4, 0)$

Radius:  $\sqrt{4} = 2$



$$\left(x + \frac{7}{2}\right)^2 + (y - 3)^2 = 8$$

Center:  $(-3.5, 3)$   
radius:  $\sqrt{8} \approx 2.8$



$$\begin{array}{r} -4y + x^2 = -y^2 + 2x + 4 \\ +y^2 - 2x \quad +y^2 - 2x \end{array}$$

$$(x^2 - 2x) + (y^2 - 4y) = 4$$

$$(x^2 - 2x + 1) + (y^2 - 4y + 4) = 4 + 1 + 4$$

$$(x - 1)^2 + (y - 2)^2 = 9$$

Center:  $(1, 2)$       Radius:  $\sqrt{9} = 3$

