

Context: #s 33-40, Find the center and radius and sketch the graph of the circle described.

$$\textcircled{37} \quad y^2 = 25 - (x+1)^2$$

$$\Rightarrow (x+1)^2 + y^2 = 25$$

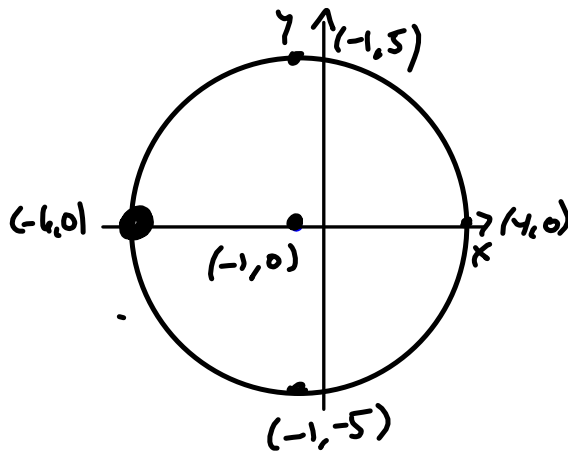
$$(h, k) = (-1, 0)$$

$$r = 5$$

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

$$h = -1$$

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



#s 41-48 Write the standard equation of the circle.

S 1.3 # 41 (#9 in MyLab) No video?!

Center at $(0, 0)$ and
radius = 7.

Didn't ask for this
graph. Think of it
as "extra help."

$$x^2 + y^2 = 7^2$$

$$(h, k) = (0, 0)$$

$$r = 7$$

$$(x - 0)^2 + (y - 0)^2 = 7^2$$

