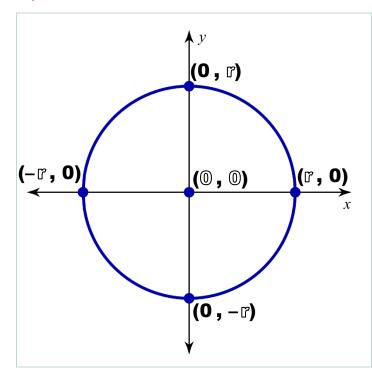
WRITING THE EQUATION OF A CIRCLE: GUIDED NOTES

Explain

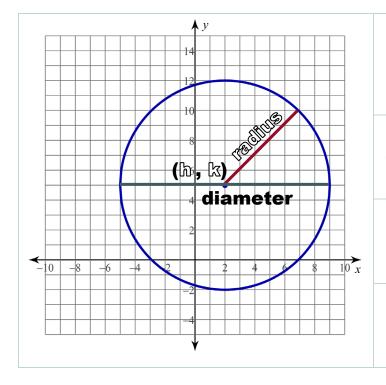


Equation of a Circle

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

center: (0, 0)

radius: 🛭



Equation of Any Circle

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

center: (\hbar , k)

radius: 🛭

1) Write the equation of a circle that has $\left(-6,1\right)$ and $\left(4,9\right)$ as the endpoints of its diameter.

2) What is the center and what is the radius of $(x+4)^2 + (y-7)^2 = 100$?