

Write the standard form of the equation of the circle with the given center and radius.

14. center $(-2, 0)$ and $r = 3$

Solution:

The standard form equation of a circle is $(x - a)^2 + (y - b)^2 = r^2$ where a and b are the x and y coordinates of the center of the circle, and r is the radius

$$(x - (-2))^2 + (y - 0)^2 = 3^2$$

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

Answer: $(x + 2)^2 + y^2 = 9$