

1. Find the distance between the following pair of points. Simplify any radicals.

$(-4, -1)$ and $(2, -3)$

2. Find the midpoint of the line segment with the given endpoints.

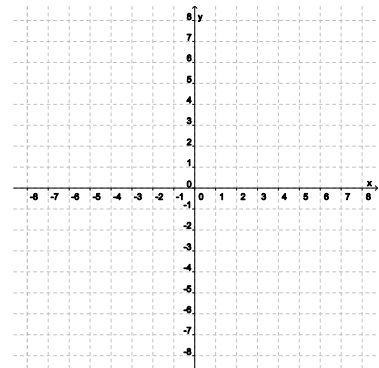
$(-4, -1)$ and $(2, -3)$

3. Write the standard form of the equation of the circle with center $(-3, 5)$ and radius 3.

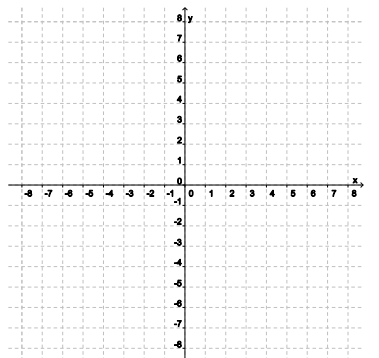
4. Give the center and radius of the circle described by the equation.

Then graph the equation.

a) $x^2 + y^2 = 16$

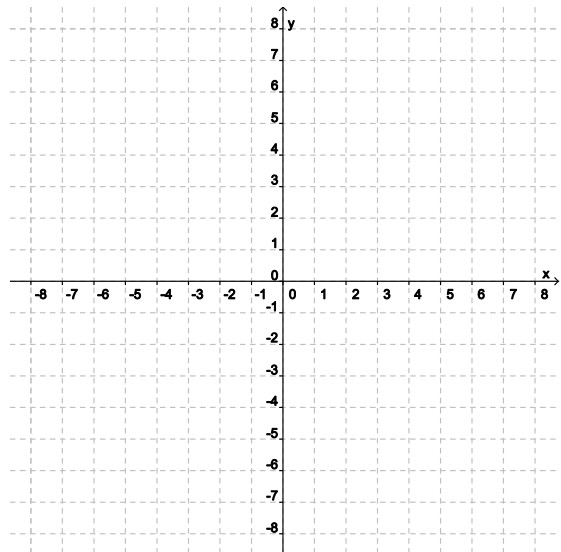


b) $(x + 1)^2 + (y - 2)^2 = 25$



5. Complete the square and write the equation in standard form. Then give the center and radius of the circle and graph the equation.

$$x^2 + y^2 + 8x + 4y + 16 = 0$$



Q: There was a green house. Inside the green house there was a white house. Inside the white house there was a red house. Inside the red house there were lots of babies. What is it?