

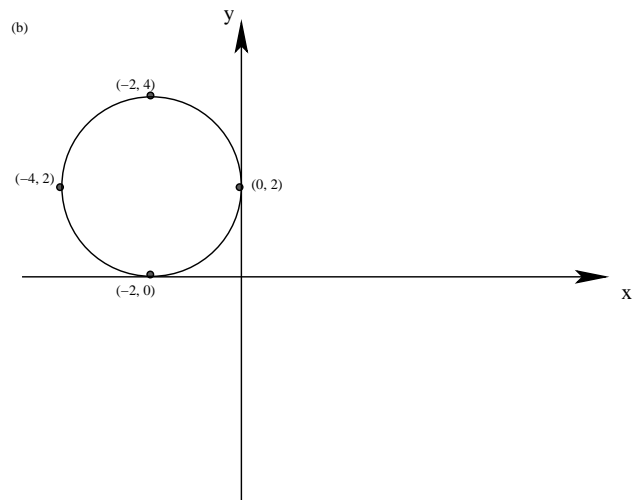
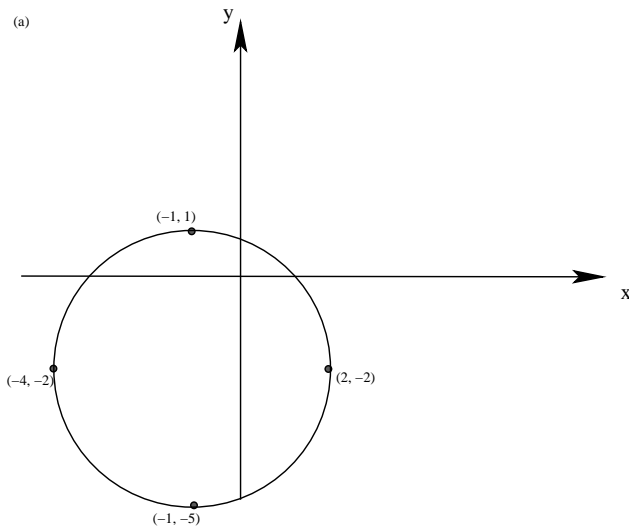
1. Find an equation, in center-radius form, for each circle. Then graph the circle.

(a) Center $(0, 0)$, radius 6.

(b) Center $(0, -3)$, radius 7.

(c) Center $(-3, -2)$, radius 6.

2. Use the given graph to determine the equation of the circle in both center-radius form and in general form.



3. Determine whether or not each equation has a non-trivial circle as its graph. If it does, find its center and radius. Otherwise, describe its graph.

(a) $x^2 + y^2 - 12x + 10y = -25$

(b) $x^2 + y^2 - 6x - 6y + 18 = 0$

4. The an equation in center-radius form for a circle having a diameter with endpoints $(-1, 2)$ and $(11, 7)$.

5. Find all points (x, y) with $x = y$ that are 4 units from the point $(1, 3)$.

6. Find all values of y such that the distance between $(3, y)$ and $(-2, 9)$ is 12.