Section 2.2: Circles

Video 1

Find the equation of a circle with the given center and radius.

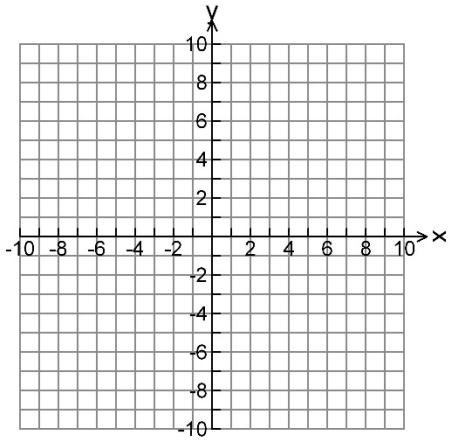
1) Center: $(0,0)$, Radius: 5

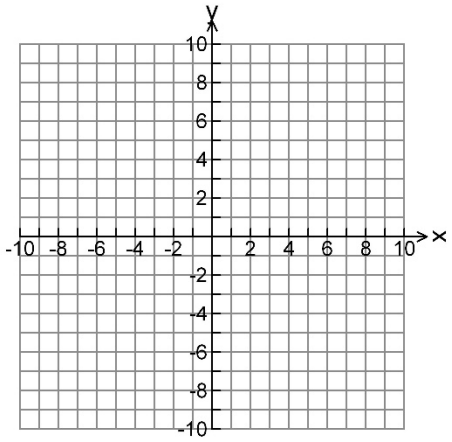
2) Center: $(3,2)$, Radius: 3

Graph the circle with the given equation.

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

4) $(x+2)^2 + (y-1)^2 = 36$





Video 2

5) Find the center and radius of a circle with the given equation: $x^2 - 8x + y^2 + 10y + 32 = 0$

6) Find the center and radius of a circle with the given equation: $4x^2 - 16x + 4y^2 + 12y - 75 = 0$

Video 3

7) A point (x, y) is located 4 units from $(3,7)$, 5 units from $(-4,3)$, and 10 units from $(7,1)$.

Find the coordinates of the point (x, y),