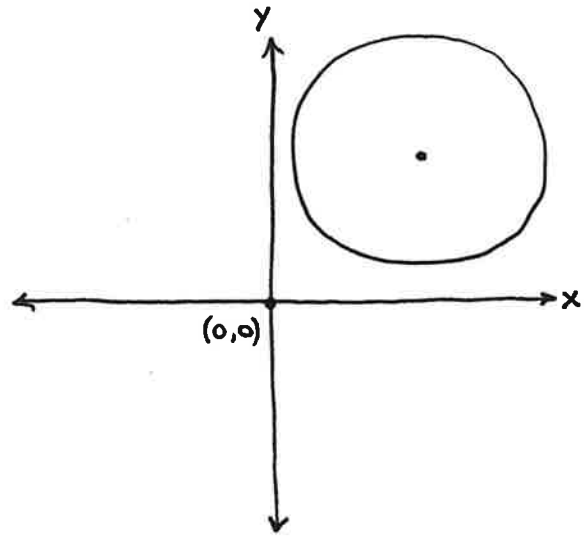


MATH 1314
Chapter 2.2: Circles

CIRCLE: THE SET OF ALL POINTS IN A PLANE
EQUIDISTANT FROM A FIXED POINT.

STANDARD
FORM: $(x-h)^2 + (y-k)^2 = R^2$



FIND THE CENTER AND RADIUS OF EACH CIRCLE.

$$(x-4)^2 + (y+3)^2 = 25$$

$$(x-1)^2 + (y-8)^2 = 9$$

$$x^2 + (y - \frac{1}{2})^2 = 12$$

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

Write the standard form of the equation of a circle with center $(-4, 6)$ and radius 2. Graph the circle.

Write the standard form of the equation of the circle with endpoints $(-1, 0)$ and $(3, 4)$.

Write the equation of the circle in standard form. Find the center and radius.
 $x^2 + y^2 + 10x - 6y + 25 = 0$