

## Notes: Conics – Circles

### Objective:

Derive the equation of a circle of given center and radius using the Pythagorean Theorem;  
complete the square to find the center and radius of a circle given by an equation.

**Definition:** a circle is the set of points in the coordinate plane that are equidistant from a fixed point.

Equation of a circle (in standard form):

$$(x - h)^2 + (y - k)^2 = r^2$$

where the center is  $(h, k)$  and  $r$  is the radius

Let  $(h, k)$  be the center of a circle, and  $(x, y)$  is a point on the circle. What is the distance between these points?

(Recall that distance is  $\sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$ .)

How does this compare to the equation of a circle in standard form? \_\_\_\_\_  
\_\_\_\_\_

**Example 1:** Use the standard form of the equation of a circle to identify the center and the radius of each circle.

a)  $(x - 5)^2 + (y - 8)^2 = 9$

Center \_\_\_\_\_,  $r =$  \_\_\_\_\_

b)  $(x + 2)^2 + (y - 3)^2 = 36$

Center \_\_\_\_\_,  $r =$  \_\_\_\_\_

c)  $x^2 + y^2 = 7$

Center \_\_\_\_\_,  $r =$  \_\_\_\_\_

d)  $x^2 + (y + 5)^2 = 11$

Center \_\_\_\_\_,  $r =$  \_\_\_\_\_

e)  $4(x - 1)^2 + 4(y + 3)^2 = 20$

Center \_\_\_\_\_,  $r =$  \_\_\_\_\_

# Converting Conics Answer Key

**Lei Shi**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## Converting Conics Answer Key:

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