Note. If r2 is not a perfect square then leave r in simplified radical form but use the decimal equivalent for graphing Example:  $\sqrt{12} = 2\sqrt{3} = 3.46$ 

#### 1) Graph the following circle:





b. 
$$(x-2)^2 + (y-5)^2 = 9$$



c. 
$$(y+4)^2 + (x+2)^2 = 16$$



a 
$$(x+3)^2 + (y-1)^2 = 4$$
 b  $x^2 + (y-3)^2 = 18$ 

$$(x^2 + (y-3)^2 = 18)$$

c. 
$$(y + 8)^2 + (x + 2)^2 = 72$$

Center:

Center

Center:

Radius \_\_\_\_\_

Radius

Radius

#### 3) Write the equation of the following circles:





4) Give the equation of the circle that is tangent to the y-axis and center is (-3, 2).

#### 5) Compare and contrast the following pairs of circles

a Circle #1: 
$$(x - 3)^2 + (y + 1)^2 = 25$$
  
Circle #2:  $(x + 1)^2 + (y - 2)^2 = 25$ 

b. Circle #1: 
$$(y + 4)^2 + (x + 7)^2 = 6$$
  
Circle #2:  $(x + 7)^2 + (y + 4)^2 = 36$ 

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