

# #4 FAL: Equations of Circles

Name: \_\_\_\_\_

Write each equation below in the proper place on the table by matching the equation to the correct center and radius. For the blank boxes you will need to create the equation using the given center and radius.

- $(x-2)^2 + (y-1)^2 = 25$
- $x^2 + (y+1)^2 = 25$
- $(x+2)^2 + (y-1)^2 = 10$
- $(x-2)^2 + (y-1)^2 = 10$
- $x^2 + (y+1)^2 = 10$
- $(x-2)^2 + (y+1)^2 = 5$
- $(x+2)^2 + (y-1)^2 = 100$
- $(x-2)^2 + (y-1)^2 = 5$
- $x^2 + (y+1)^2 = 100$
- $(x-2)^2 + (y+1)^2 = 100$
- $(x-2)^2 + (y+1)^2 = 10$
- $(x-2)^2 + (y+1)^2 = 25$

	Center at (2, 1)	Center at (2, -1)	Center at (0, -1)	Center (__, __)
Radius of $\sqrt{5}$				
Radius of $\sqrt{10}$				
Radius of 5				
Radius of 10				

# #4 FALL: Equations of Circles

Name: Key

Write each equation below in the proper place on the table by matching the equation to the correct center and radius. For the blank boxes you will need to create the equation using the given center and radius.

$(x-2)^2 + (y-1)^2 = 25$   
 $x^2 + (y+1)^2 = 25$   
 $(x+2)^2 + (y-1)^2 = 10$   
 $(x-2)^2 + (y-1)^2 = 10$

$x^2 + (y+1)^2 = 10$   
 $(x-2)^2 + (y+1)^2 = 5$   
 $(x+2)^2 + (y-1)^2 = 100$   
 $(x-2)^2 + (y-1)^2 = 5$

$x^2 + (y+1)^2 = 100$   
 $(x-2)^2 + (y+1)^2 = 100$   
 $(x-2)^2 + (y+1)^2 = 10$   
 $(x-2)^2 + (y+1)^2 = 25$

	Center at (2, 1)	Center at (2, -1)	Center at (0, -1)	Center (-2, 1)
Radius of $\sqrt{5}$	$(x-2)^2 + (y-1)^2 = 5$	$(x-2)^2 + (y+1)^2 = 5$	$x^2 + (y+1)^2 = 5$	$(x+2)^2 + (y-1)^2 = 5$
Radius of $\sqrt{10}$	$(x-2)^2 + (y-1)^2 = 10$	$(x-2)^2 + (y+1)^2 = 10$	$x^2 + (y+1)^2 = 10$	$(x+2)^2 + (y-1)^2 = 10$
Radius of 5	$(x-2)^2 + (y-1)^2 = 25$	$(x-2)^2 + (y+1)^2 = 25$	$x^2 + (y+1)^2 = 25$	$(x+2)^2 + (y-1)^2 = 25$
Radius of 10	$(x-2)^2 + (y-1)^2 = 100$	$(x-2)^2 + (y+1)^2 = 100$	$x^2 + (y+1)^2 = 100$	$(x+2)^2 + (y-1)^2 = 100$