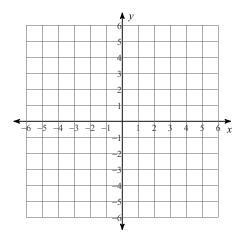
## Activity 0921

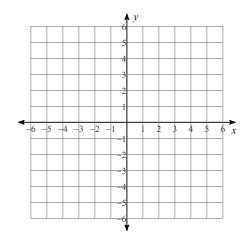
Date\_\_\_\_\_ Period\_\_\_\_

Sketch the graph of each line.

1) 
$$y = -\frac{2}{3}x - 2$$

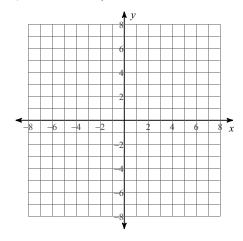


2) 
$$y = \frac{1}{4}x + 3$$

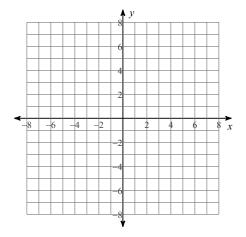


Identify the center and radius of each. Then sketch the graph.

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

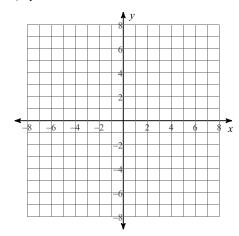


4) 
$$(x-3)^2 + (y-2)^2 = 4$$

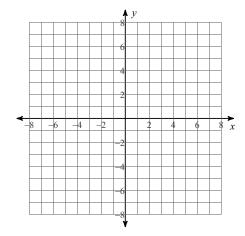


Identify the vertex, focus, and axis of symmetry of each. Then sketch the graph.

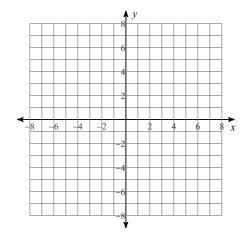
5) 
$$y = 2x^2$$



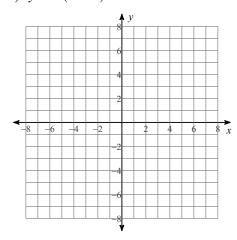
7) 
$$y = (x+1)^2 + 4$$



6) 
$$y = -\frac{1}{2}x^2$$



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

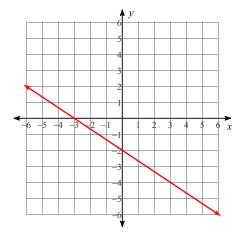


## Activity 0921

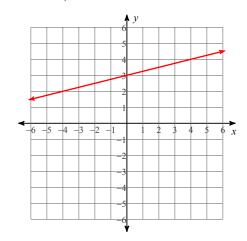
Date Period

Sketch the graph of each line.

1) 
$$y = -\frac{2}{3}x - 2$$

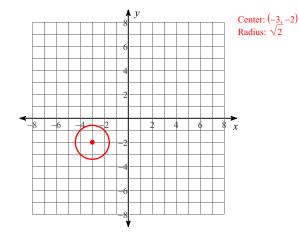


2) 
$$y = \frac{1}{4}x + 3$$

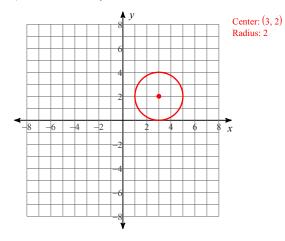


Identify the center and radius of each. Then sketch the graph.

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

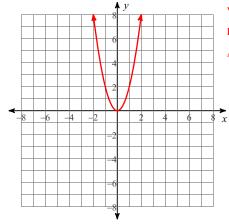


4) 
$$(x-3)^2 + (y-2)^2 = 4$$



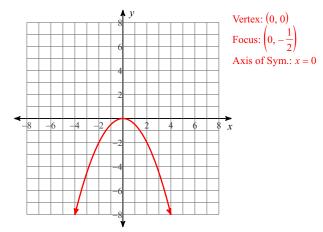
## Identify the vertex, focus, and axis of symmetry of each. Then sketch the graph.

5) 
$$y = 2x^2$$

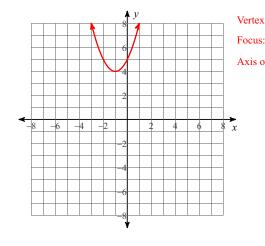


Vertex: 
$$(0, 0)$$
  
Focus:  $\left(0, \frac{1}{8}\right)$   
Axis of Sym.:  $x = 0$ 

6) 
$$y = -\frac{1}{2}x^2$$



7) 
$$y = (x+1)^2 + 4$$



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

