

## 2.1 Review

Identify the vertex of the quadratic function in VERTEX form.			
5. $y = 3(x-7)^2 - 1$	6. $y = 3(x+2)^2 - 5$	7. $y = (x-3)^2$	8. $y = -4(x-2)^2 + 4$
9. $y = 2(x+1)^2 - 3$	10. $y = (x+4)^2$	11. $y = \frac{1}{2}(x-5)^2 + 1$	12. $y = -(x+6)^2 + 10$

Given a quadratic equation in vertex form, find the vertex, axis of symmetry, whether the graph opens up or down, the maximum or minimum, and the y-intercept. Graph it!

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

Vertex: \_\_\_\_\_

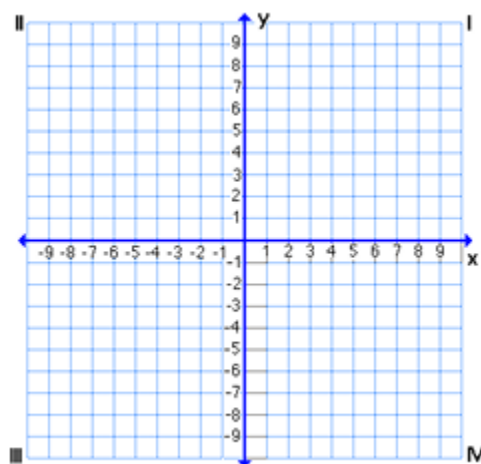
Axis of symmetry: \_\_\_\_\_

Opens: up    down

Maximum    Minimum

Max/Min Value: \_\_\_\_\_

y-intercept: \_\_\_\_\_



17.  $y = (x-3)^2 + 2$

Vertex: \_\_\_\_\_

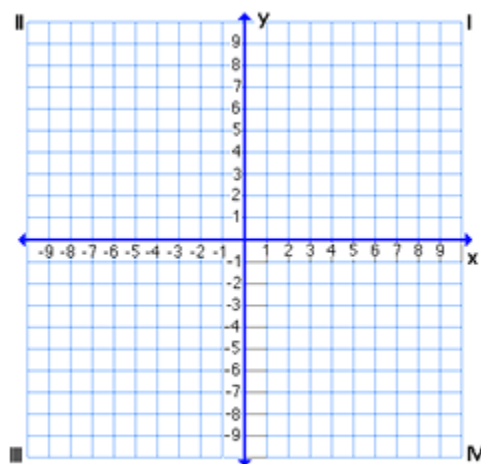
Axis of symmetry: \_\_\_\_\_

Opens: up    down

Maximum    Minimum

Max/Min Value: \_\_\_\_\_

y-intercept: \_\_\_\_\_



Given a quadratic equation in vertex form, find the vertex, axis of symmetry, whether the graph opens up or down, the maximum or minimum, and the y-intercept. Graph it!

18.  $y = -\frac{1}{5}(x-5)^2 - 2$

Vertex: \_\_\_\_\_

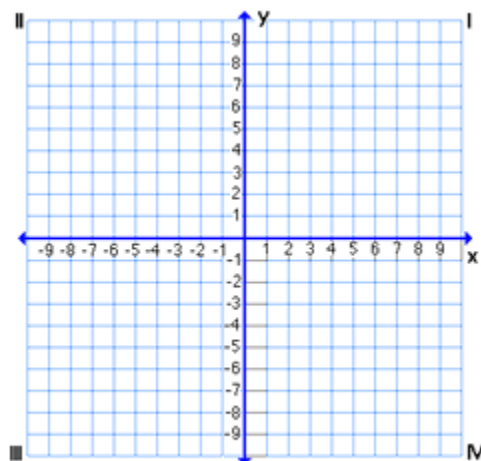
Axis of symmetry: \_\_\_\_\_

Opens: up    down

Maximum    Minimum

Max/Min Value: \_\_\_\_\_

y-intercept: \_\_\_\_\_



19.  $y = (x-2)^2$

Vertex: \_\_\_\_\_

Axis of symmetry: \_\_\_\_\_

Opens: up    down

Maximum    Minimum

Max/Min Value: \_\_\_\_\_

y-intercept: \_\_\_\_\_

