

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

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

## Graphing Parabolas WS

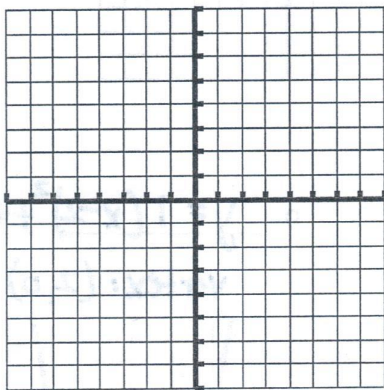
Graph each function.

1.  $y = (x-1)^2 + 2$

Vertex = \_\_\_\_\_

A.O.S. = \_\_\_\_\_

Is the vertex a max or min?

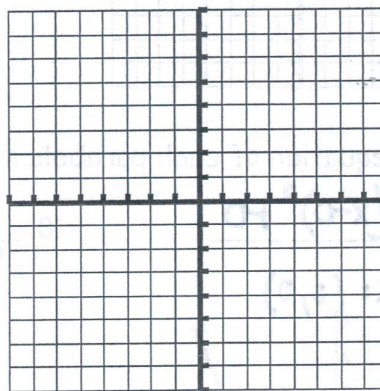


2.  $y = 2(x-2)^2 + 5$

Vertex = \_\_\_\_\_

A.O.S. = \_\_\_\_\_

Is the vertex a max or min?

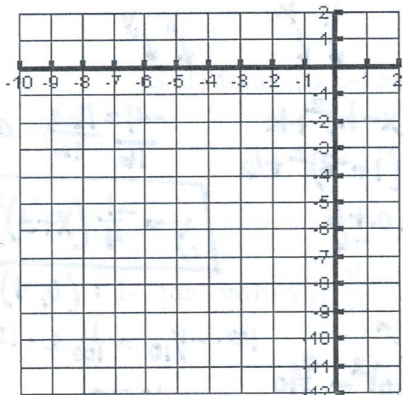


3.  $y = -3(x+7)^2 - 8$

Vertex = \_\_\_\_\_

A.O.S. = \_\_\_\_\_

Is the vertex a max or min?

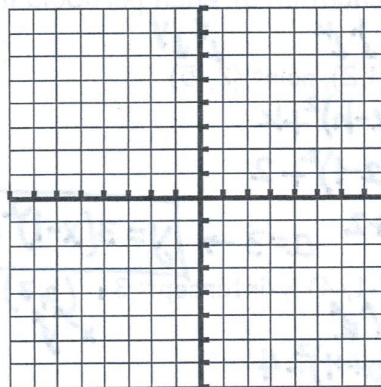


4.  $y = (x-5)^2 - 3$

Vertex = \_\_\_\_\_

A.O.S. = \_\_\_\_\_

Is the vertex a max or min?

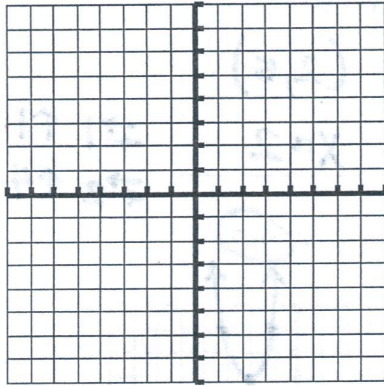


5.  $y = -(x-1)^2 + 4$

Vertex = \_\_\_\_\_

A.O.S. = \_\_\_\_\_

Is the vertex a max or min?

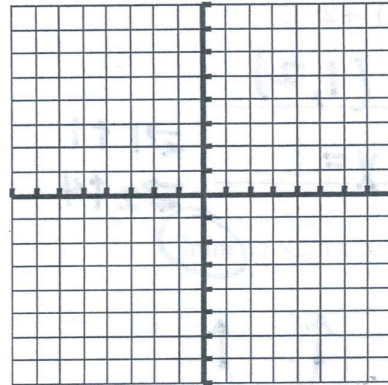


6.  $y = 2(x+1)^2$

Vertex = \_\_\_\_\_

A.O.S. = \_\_\_\_\_

Is the vertex a max or min?

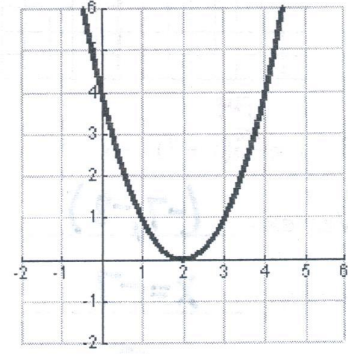
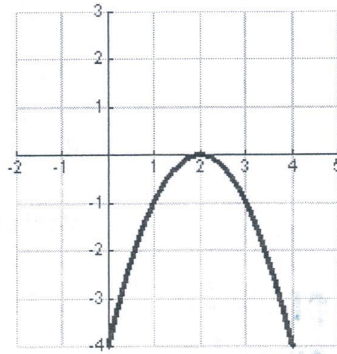
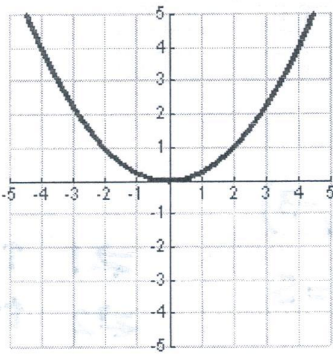


Write the equation of each parabola in vertex form.

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_



Write the equation of each parabola in vertex form.

10. vertex (1,2), point (2,-5)

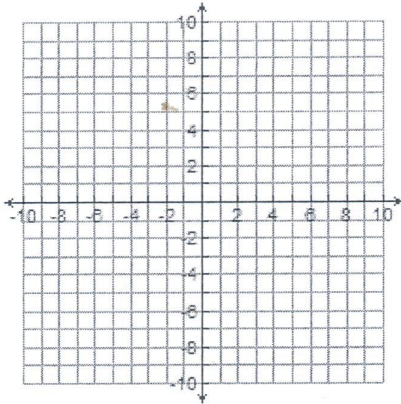
11. Vertex (-3,6), point (1,-2)

12. vertex (-1,-4), y-intercept: 3

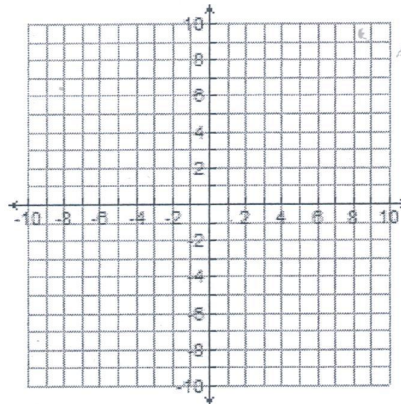
13. Vertex  $(\frac{1}{10}, -\frac{9}{10})$ , y-intercept: -1

Graph the quadratic equation on the provided grid.

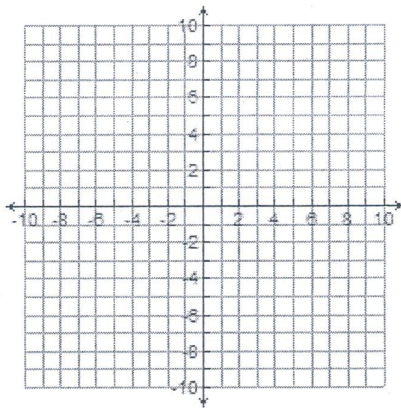
14.  $f(x) = (x-0)^2 + 3$



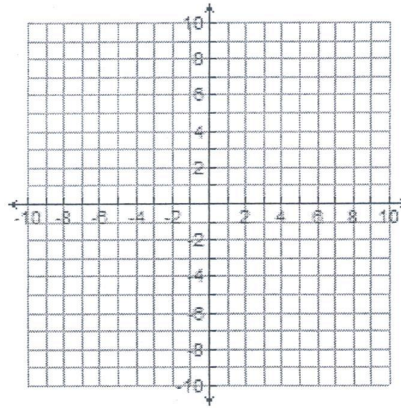
15.  $f(x) = (x+4)^2 + 0$



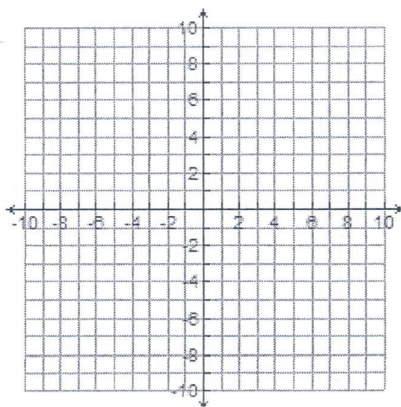
16.  $f(x) = -2(x-0)^2 + 0$



17.  $f(x) = (x-3)^2 + 4$



18.  $f(x) = 3(x-4)^2 - 6$



19.  $f(x) = \frac{1}{2}(x+2)^2 + 3$

