Name: _____Date: _____

Graphing a Parabola from Vertex Form Worksheet

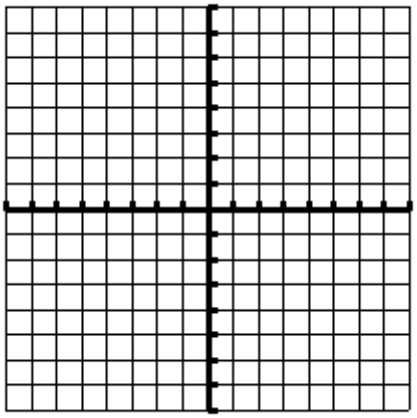
Graph each function.

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

Vertex = _____

A.O.S. = _____

Is the vertex a max or min?

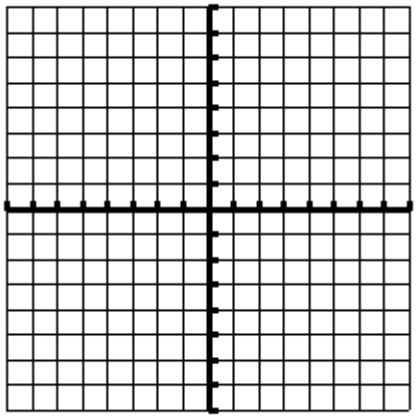


2. $y = 2(x-2)^2 + 5$

Vertex = _____

A.O.S. = _____

Is the vertex a max or min?

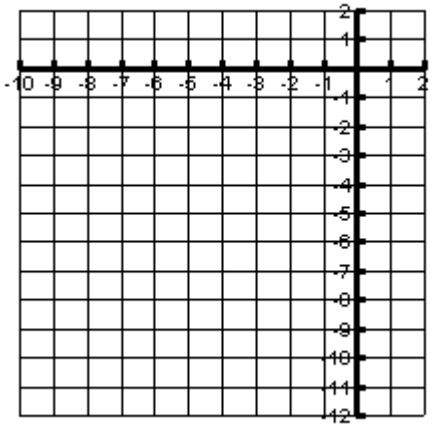


3. $y = -3(x+7)^2 - 8$

Vertex = _____

A.O.S. = _____

Is the vertex a max or min?

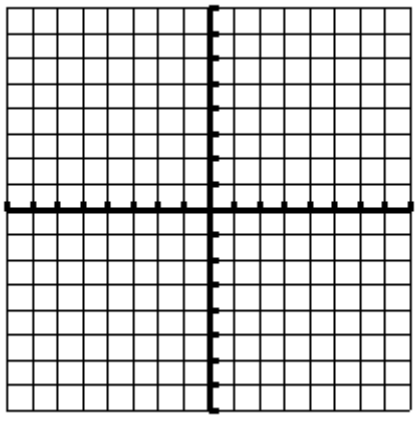


4. $y = (x-5)^2 - 3$

Vertex = _____

A.O.S. = _____

Is the vertex a max or min?

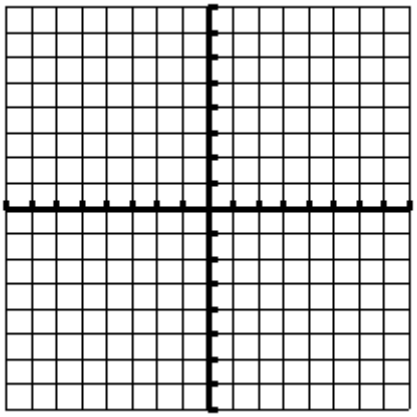


5. $y = -(x-1)^2 + 4$

Vertex = _____

A.O.S. = _____

Is the vertex a max or min?

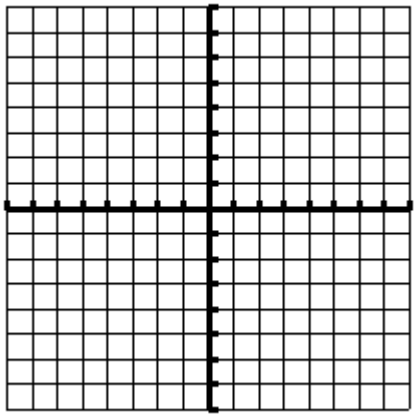


6. $y = 2(x+1)^2$

Vertex = _____

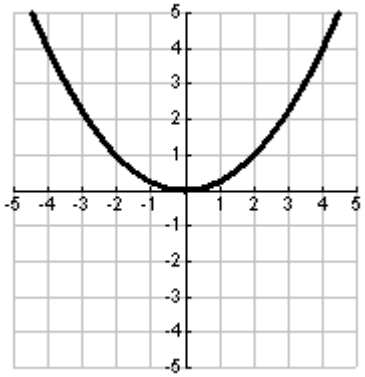
A.O.S. = _____

Is the vertex a max or min?

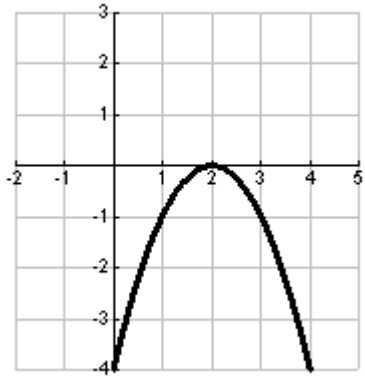


Write the equation of each parabola in vertex form.

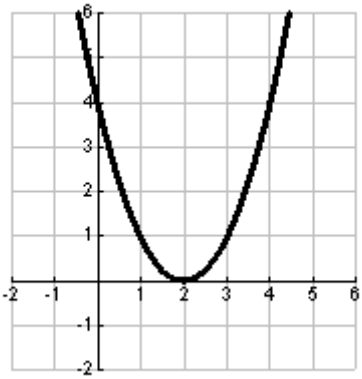
7. _____



8. _____



9. _____



10.) Write the vertex form of a quadratic equation.

11.) What does changing the "a" variable do to the graph of a quadratic?

12.) If "h" is positive how does the parabola move? Negative?

13.) What does changing the "k" variable do to the graph of a quadratic?

14.) What conclusion can you make about the variables h and k together?