



GRAPHING QUADRATICS IN VERTEX FORM WORKSHEET #1

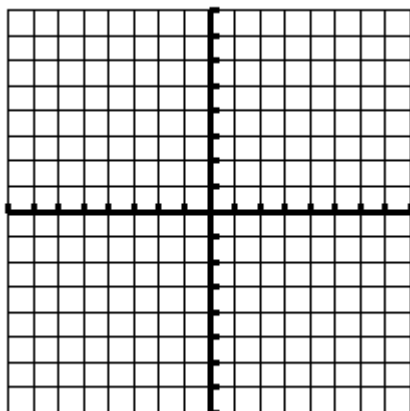
Graph each quadratic equation.

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

Vertex : _____

Axis: _____

Is the vertex a max or min?

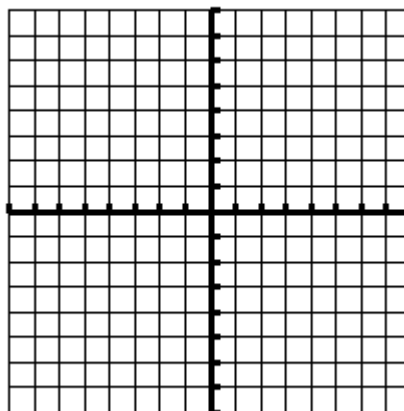


2. $y = 2(x-2)^2 + 5$

Vertex : _____

Axis: _____

Is the vertex a max or min?

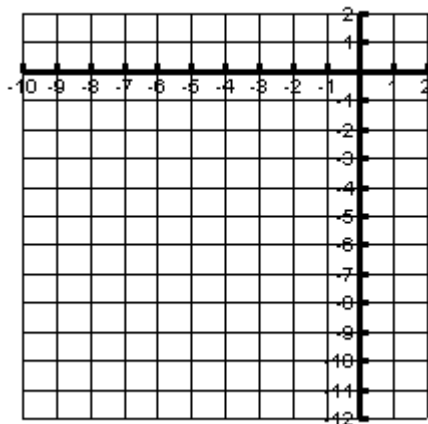


3. $y = -3(x+7)^2 - 8$

Vertex: _____

Axis: _____

Is the vertex a max or min?

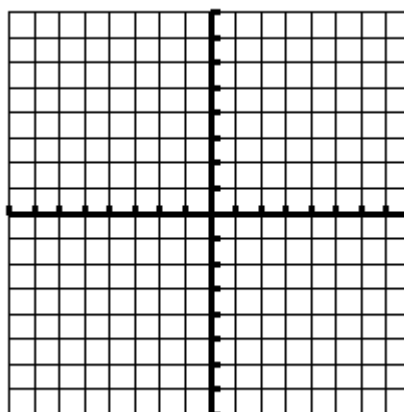


4. $y = (x-5)^2 - 3$

Vertex: _____

Axis: _____

Is the vertex a max or min?

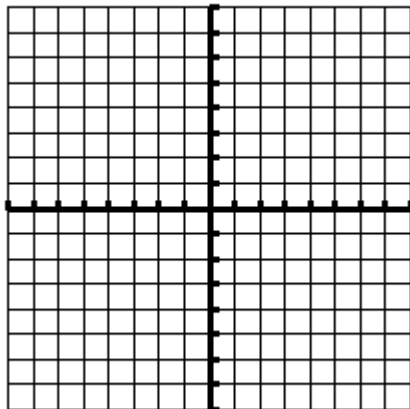


5. $y = -(x-1)^2 + 4$

Vertex = _____

A.O.S. = _____

Is the vertex a max or min?

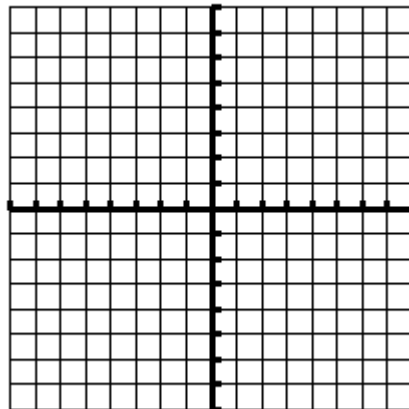


6. $y = 2(x+1)^2$

Vertex = _____

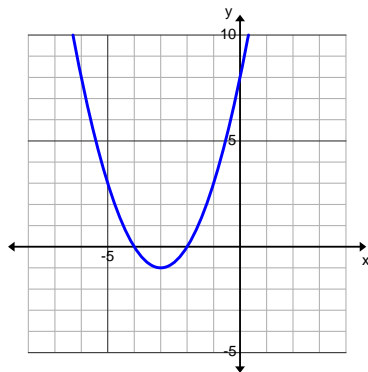
A.O.S. = _____

Is the vertex a max or min?

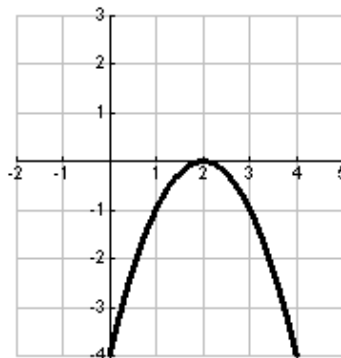


Write the equation of each parabola in vertex form.

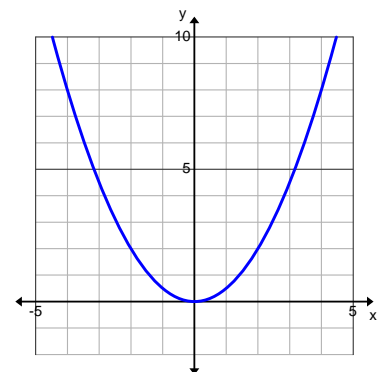
7. _____



8. _____



9. _____



10. A football is kicked into the air. It's height in meters after t seconds is given by $h = -4.9(t - 2.4)^2 + 29$.

- a) What was the height of the football when it was kicked?
- b) What was the maximum height of the ball? At what time was the maximum height reached?
- c) How high was the ball after 2 seconds?
- d) Was the ball still in the air after 5 seconds?