

Algebra II

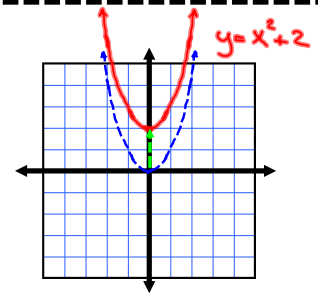
7-5

(Day 2)

Quadratic Functions and Their Graphs

Recapping yesterday's activity

1) In the equation $y = x^2 + k$, k causes the graph to

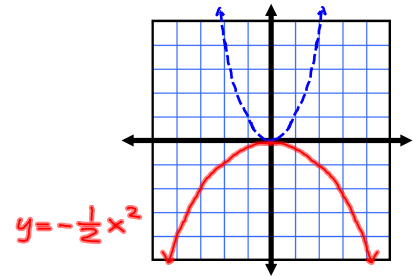


2) In the equation $y = ax^2$, if a is:

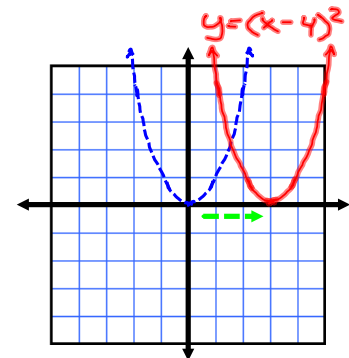
negative - _____

$|a| > 1$, _____

$0 < |a| < 1$, _____

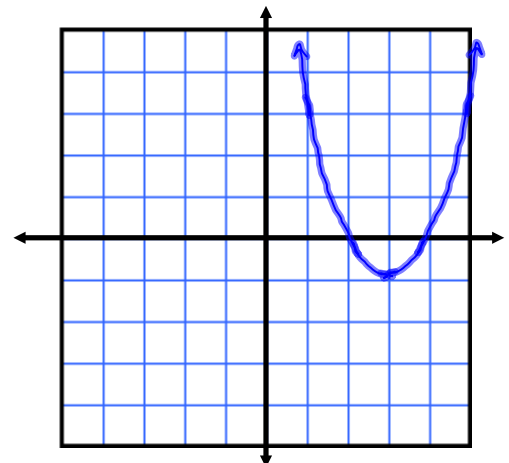


3) In the equation $y = (x - h)^2$, h causes the graph to



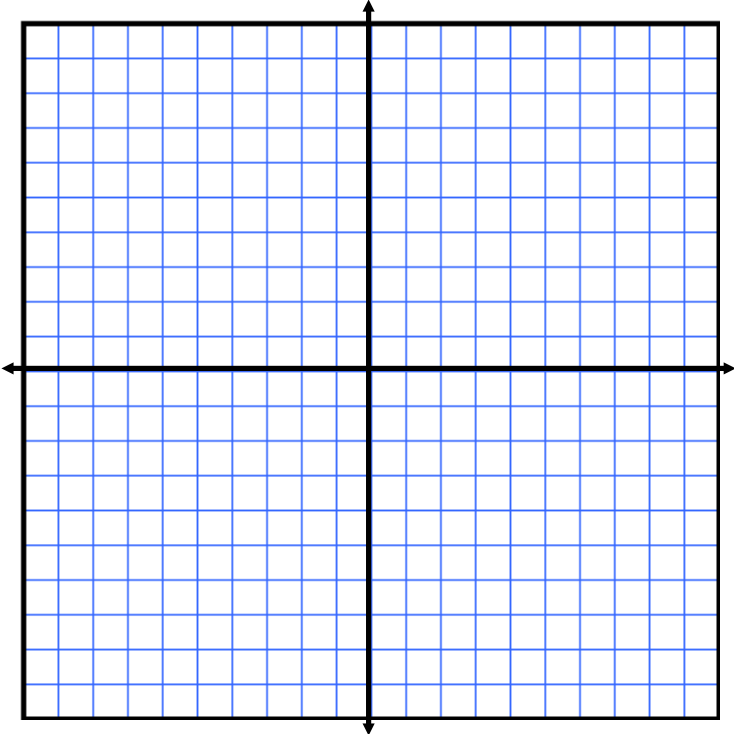
Putting it all Together

Standard Form of a Quadratic Equation -

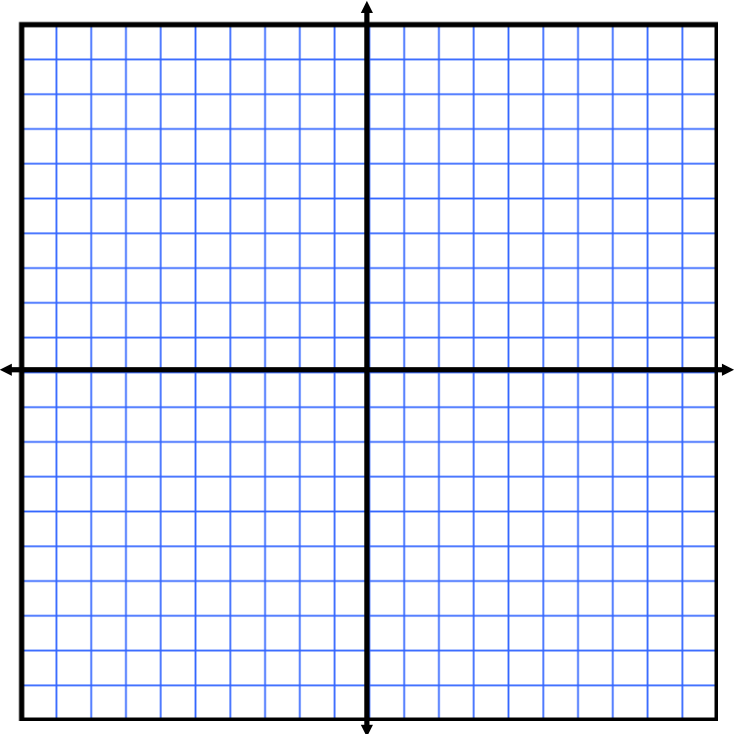


Graph each equation. Label the vertex and axis of symmetry. Find all intercepts.
(pg. 331)

1) $y = -3x^2$



11) $y + 8 = \frac{1}{2}(x + 1)^2$



Find an equation in $y = a(x - h)^2 + k$ for each parabola described.

19) Vertex $(4, -3)$, contains $(2, -1)$

23) Vertex $(3, 5)$, y - intercept 2

What is the Standard Form good for?

What is the General Form good for?

How do I find y - intercepts?

How do I find x - intercepts?

How do I find the axis of symmetry?

Assignment: Pg. 331 2 - 30 even (skip 16) 8 Graphs
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