

LT 3.1 Quick Check #1
Good luck!

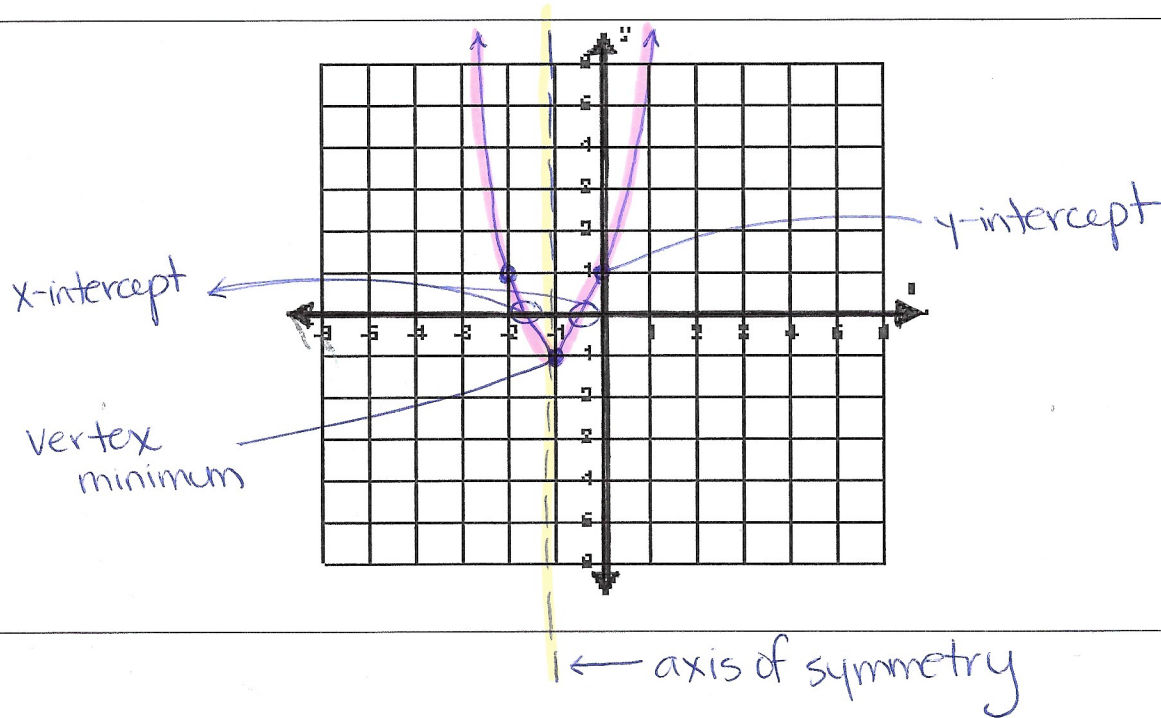
LT 3.1

1) Graph the quadratic function $f(x) = 2x^2 + 4x + 1$ by using Method 1: Table of values

a) Fill out the entire table.

x	$f(x) = 2x^2 + 4x + 1$	f(x)	(x, f(x))
-3	$f(-3) = 2(-3)^2 + 4(-3) + 1$	7	(-3, 7)
-2	$f(-2) = 2(-2)^2 + 4(-2) + 1$	1	(-2, 1)
-1	$f(-1) = 2(-1)^2 + 4(-1) + 1$	-1	(-1, -1) * vertex
0	$f(0) = 2(0)^2 + 4(0) + 1$	1	(0, 1)
1	$f(1) = 2(1)^2 + 4(1) + 1$	7	(1, 7)
2	$f(2) = 2(2)^2 + 4(2) + 1$	17	(2, 17)

- b) Graph the quadratic function.
 Label the vertex
 Label the y-intercept
 Label the x-intercept
 Label the axis of symmetry
 Label the maximum or minimum



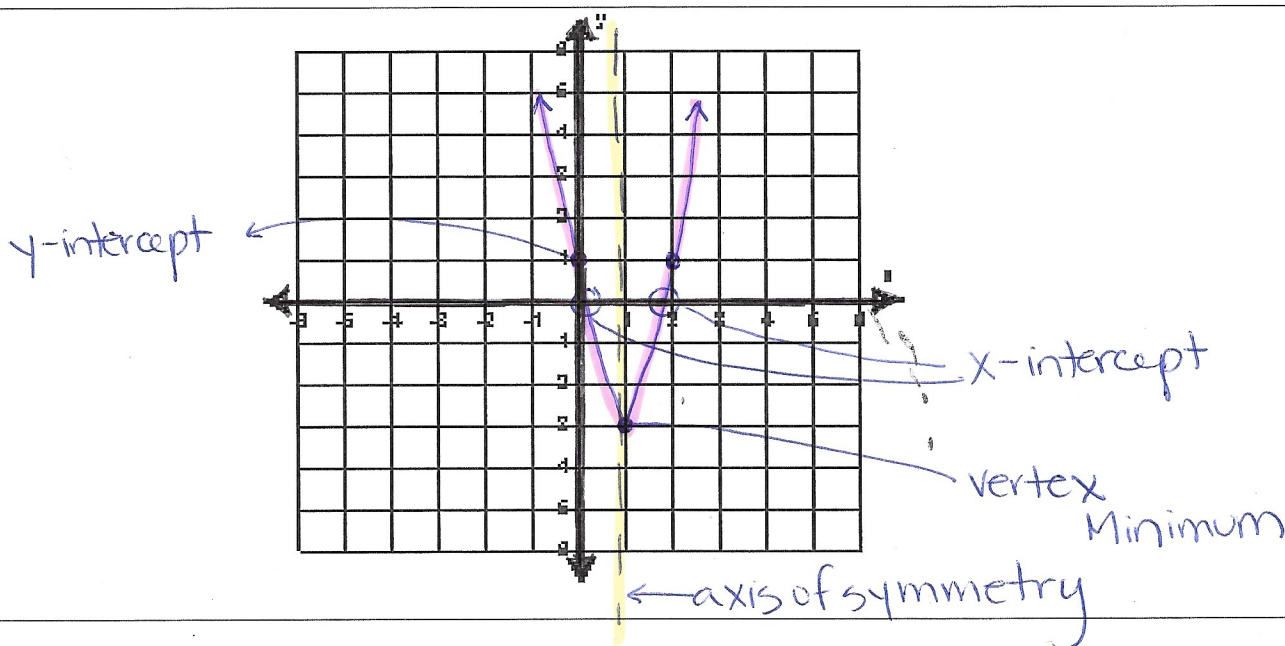
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LT 3.1a

- 1) Graph the quadratic function $f(x) = 4x^2 - 8x + 1$ by using Method 1: Table of values
a) Fill out the entire table.

x	$f(x) = 4x^2 - 8x + 1$	f(x)	(x, f(x))
-3	$f(-3) = 4(-3)^2 - 8(-3) + 1$	61	(-3, 61)
-2	$f(-2) = 4(-2)^2 - 8(-2) + 1$	33	(-2, 33)
-1	$f(-1) = 4(-1)^2 - 8(-1) + 1$	13	(-1, 13)
0	$f(0) = 4(0)^2 - 8(0) + 1$	1	(0, 1)
1	$f(1) = 4(1)^2 - 8(1) + 1$	-3	(1, -3) *vertex
2	$f(2) = 4(2)^2 - 8(2) + 1$	1	(2, 1)

- b) Graph the quadratic function.
 Label the vertex
 Label the y-intercept
 Label the x-intercept
 Label the axis of symmetry
 Label the maximum or minimum



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LT 3.1H

1) Graph the quadratic function $f(x) = x^2 - 8x + 15$ by using Method 1: Table of values

a) Fill out the entire table. x from 0 to 5

x	$f(x) = x^2 - 8x + 15$	f(x)	(x, f(x))
0	$f(0) = (0)^2 - 8(0) + 15$	15	(0, 15)
1	$f(1) = (1)^2 - 8(1) + 15$	8	(1, 8)
2	$f(2) = (2)^2 - 8(2) + 15$	3	(2, 3)
3	$f(3) = (3)^2 - 8(3) + 15$	0	(3, 0)
4	$f(4) = (4)^2 - 8(4) + 15$	-1	(4, -1) *vertex
5	$f(5) = (5)^2 - 8(5) + 15$	0	(5, 0)

b) Graph the quadratic function.

- Label the vertex
- Label the y-intercept
- Label the x-intercept
- Label the axis of symmetry
- Label the maximum or minimum

y-intercept $\rightarrow x=0$
 $f(0) = 0^2 - 8(0) + 15$
at $y=15$

