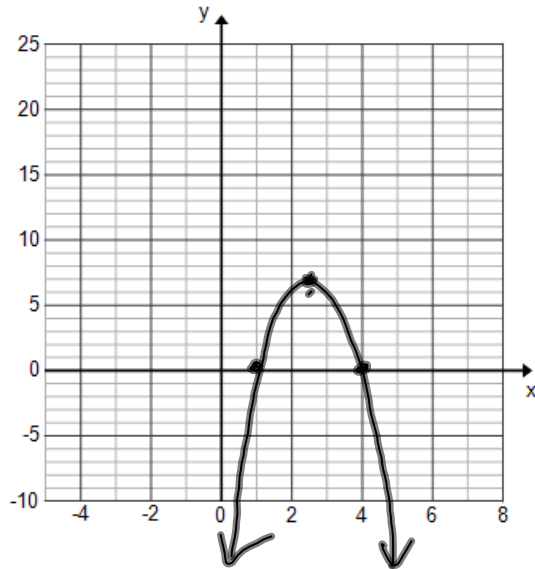


Warm-up!

Graph the following equation and find the solutions. Verify the solutions.



$$y = -3x^2 + 15x - 12$$

$$x=1 \quad x=4$$

$$\text{Vertex: } (2.5, 6.75)$$

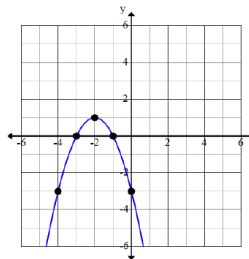
5.4A Graphing Quadratic Inequalities

Section
5.4A

To the right is the graph of the equation $y = -x^2 - 4x - 3$.

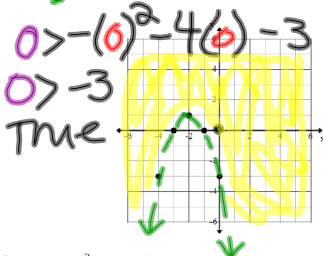
Symbol	Type of Line
$<, >$	dash
\leq, \geq	Solid

x	y
-4	-3
-3	0
-2	1
-1	0
0	-3

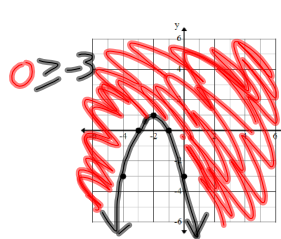


#1 - 4: Using the graph of the given equation, complete the graph for each of the following inequalities by adding the appropriate boundary and shading.

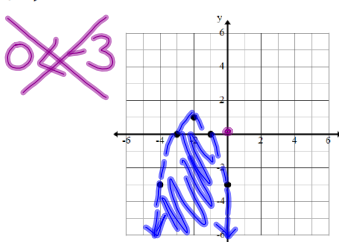
1) $y > -x^2 - 4x - 3$



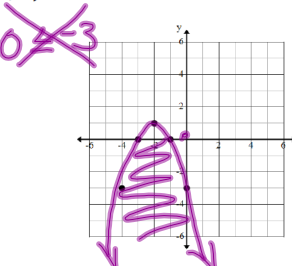
2) $y \geq -x^2 - 4x - 3$



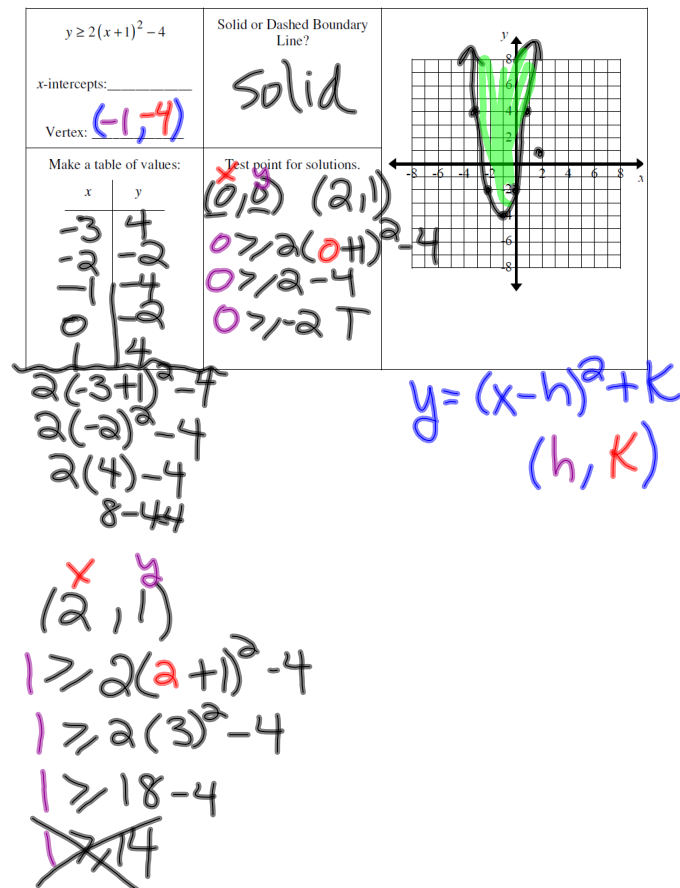
3) $y < -x^2 - 4x - 3$



4) $y \leq -x^2 - 4x - 3$



5) Graph the following inequalities.



3/24	5.4	I can find solutions involving quadratic inequalities.	5.4A #1-6, 10-15 (P-61)		☺ ☹ ☹
3/25			5.4B #5-12 (P-66)		☺ ☹ ☹
3/26			Review		☺ ☹ ☹
Test Date: 3/27		Test Reminders:		Standards you still need help on (by LT#)	Review Done? Y/N Review Checked with answer key? Y/N Did you ask about the ones you didn't know how to do? Y/N