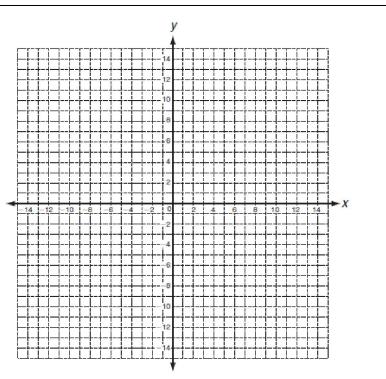
Quadratic Function Worksheet

Complete the table for each quadratic function, and then graph the parabola.

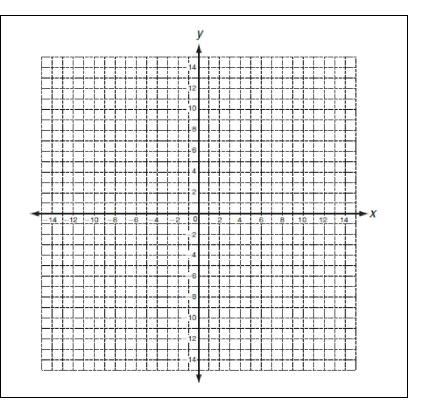
A.)
$$y = x^2$$

X	χ	2	У						
3							 - -		
2						 	- - -		
1						 			
0				-	-14	-12	-10		8
-1						 	{}- {}- {}- {}-		
-2							- - -		
-3							ļļ-	<u> </u>	-



B.)
$$y = 2x^2 - 4$$

X	$2x^2 - 4$	У
3		
2		
1		
0		
-1		
-2		
-3		



 $y = -\frac{1}{2}x^2 + 3$

x	У	<i>y</i>
6		10
4		
2		2 x
0		-14 -12 -10 -8 -6 -4 -2 0 2 4 6 8 10 12 14 -2 14
-2		6
-4		10
		14

1	At what v	alue does	each graph	cross the	v-axis?
1.	At what v	aruc uocs	cacii grapi	i cross uic	y-anis:

Graph A: _____ Graph B: ____ Graph C: ____

- 2. Do you see this "y-intercept" value in each corresponding equation?
- 3. If so, where?
- 4. In which direction does each graph "open"?

Graph A: _____ Graph B: ____ Graph C: ____

- 5. Which value on each equation do you think determines the direction a graph opens?
- 6. What is the "leading coefficient" of each equation?

Equation A: _____ Equation B: ____ Equation C: ____

7. Identify the leading coefficient and y-intercept of : $y = ax^2 + bx + c$.