

Graphing Quadratics – Standard Form

Quadratic Form: _____

'a' makes the graph _____, neg. 'a' opens _____ and pos. 'a' opens _____.

Squared makes it graph as _____ named a _____ function.

'c' _____ the graph a number of units.

'A of S' means _____.

To find the vertex you must use the formula:

Which is now the x in the vertex (x,y).

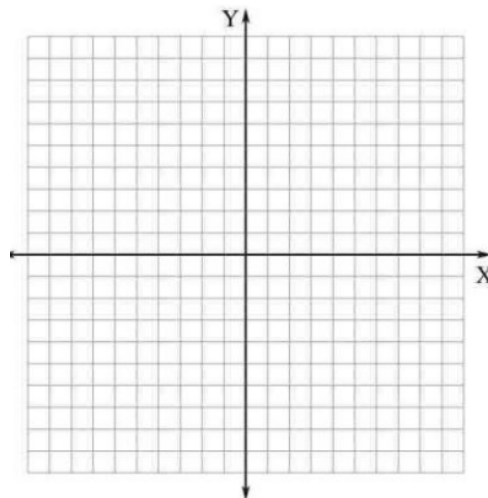
To find the y-intercept we find the value of _____.

Ex1. $y = x^2 + 6x + 6$

Steps to Graph a Quadratic in Std Form

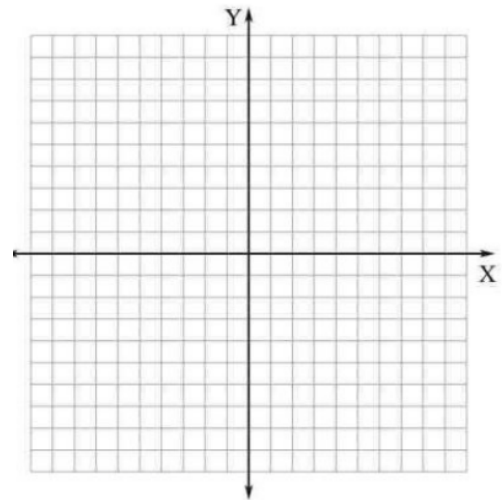
1. Find _____
2. Use "x" and plug in to quadratic to find _____
3. Plot both
4. Choose two x-values to use to find _____.
5. Plot

Vertex	
Max/Min Value	
AOS	
Zero(s)	
Opens	
y-intercept	
Domain	
Range	



Ex. 2) $y = 2x^2 - 12x + 17$

Vertex	
Max/Min Value	
AOS	
Zero(s)	
Opens	
y-intercept	
Domain	
Range	



Ex 3) $y = \frac{1}{2}x^2 - 2x + 6$

Vertex	
Max/Min Value	
AOS	
Zero(s)	
Opens	
y-intercept	
Domain	
Range	

