When graphing a quadratic, we will graph 4 things –

- 2 X intercepts
- 1 Y intercept
- The vertex what is that?

0				

For any y-intercept, the x value is equal to ______.

For any x-intercept, the y value is equal to ______.

To find the vertex, we will first find the x-value and then substitute to find the y-value.

We can find the x-value of the vertex 2 different ways:

$$x = \frac{-b}{2a}$$
 OR the x value is halfway between the two x intercepts

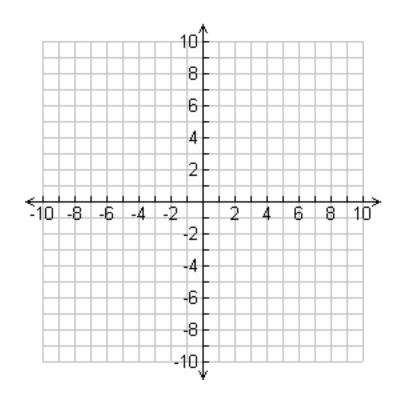
Graph the quadratic: y = (x - 2)(x + 4)

x-intercept: _____

x-intercept: _____

y-intercept: _____

vertex: _____



Graph the quadratic:	y = (x - 5)(x + 1)			
x-intercept:				
x-intercept:				
y-intercept:				
vertex.				

