

1.

## Solution

Since the line of symmetry will always be a vertical line in all of our parabolas, the general formula for the line will be  $c = k$

where  $k$  is the first coordinate of the vertex, and it is equal:  $-\frac{2}{2(2)} = -\frac{1}{2}$

So, the axis of symmetry is:  $c = -\frac{1}{2}$