So, the axis of symmetry is:  $q = -\frac{1}{4}$ 

where k is the first coordinate of the vertex, and it is equal:  $-\frac{1}{2(2)} = -\frac{1}{4}$ 

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 q = k