

6.

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 $x = z$

where z is the first coordinate of the vertex, and it is equal: $-\frac{6}{2(2)} = -\frac{3}{2}$

So, the axis of symmetry is: $x = -\frac{3}{2}$