

Find the vertex of the quadratic equations:

1.)  $y = 3x^2 - 24x - 7$

$a = \underline{\hspace{1cm}}$   $b = \underline{\hspace{1cm}}$   $c = \underline{\hspace{1cm}}$

Vertex:                     

Axis of Symmetry:                     

2.)  $y = 2x^2 - 16x + 1$

$a = \underline{\hspace{1cm}}$   $b = \underline{\hspace{1cm}}$   $c = \underline{\hspace{1cm}}$

Vertex:                     

Axis of Symmetry:                     

3.)  $y = -4x^2 + 8x - 1$

$a = \underline{\hspace{1cm}}$   $b = \underline{\hspace{1cm}}$   $c = \underline{\hspace{1cm}}$

Vertex:                     

Axis of Symmetry:                     

4.)  $y = 3x^2 - 24x - 15$

$a = \underline{\hspace{1cm}}$   $b = \underline{\hspace{1cm}}$   $c = \underline{\hspace{1cm}}$

Vertex:                     

Axis of Symmetry:                     

5.)  $y = -x^2 + 5x + 1$

$a = \underline{\hspace{1cm}}$   $b = \underline{\hspace{1cm}}$   $c = \underline{\hspace{1cm}}$

Vertex:                     

Axis of Symmetry:                     

6.)  $y = 6x^2 + 12x + 6$

$a = \underline{\hspace{1cm}}$   $b = \underline{\hspace{1cm}}$   $c = \underline{\hspace{1cm}}$

Vertex:                     

Axis of Symmetry: