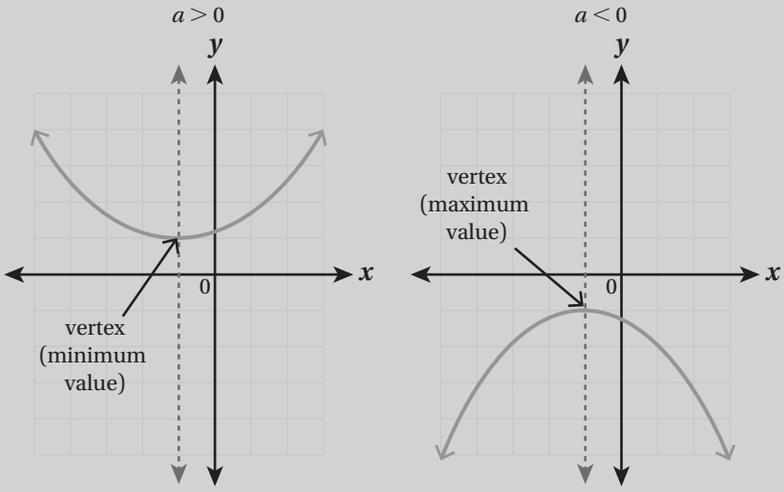
Worksheet

EXAMPLE 3

The graphs below shows a situation where there are no x-intercepts and $a > 0$ with a minimum value and where $a < 0$ with a maximum value.



Exercise 2

1. Given: $y = x^2 - 3x + 2$.

1.1 Determine the axis of symmetry.
1.2 Determine the vertex.
1.3 Determine the x-intercepts.
1.4 Determine the y-intercepts.
1.5 Explain the shape of the graph.

2. Given: $y = x^2 - 6x - 7$.

2.1 Determine the axis of symmetry.
2.2 Determine vertex.
2.3 Determine the x-intercepts.
2.4 Determine the y-intercepts.
2.5 Explain the shape of the graph.

3. Given: $y = x^2 - 8x + 7$.

3.1 Determine the axis of symmetry.
3.2 Determine vertex.
3.3 Determine the x-intercepts.
3.4 Determine the y-intercepts.
3.5 Explain the shape of the graph.

4. Given: $y = -2x^2 - x + 1$.

4.1 Determine the axis of symmetry.
4.2 Determine vertex.
4.3 Determine the x-intercepts.
4.4 Determine the y-intercepts.
4.5 Explain the shape of the graph.

5. Given: $y = -3x^2 - x + 2$.

5.1 Determine the axis of symmetry.
5.2 Determine vertex.
5.3 Determine the x-intercepts.
5.4 Determine the y-intercepts.
5.5 Explain the shape of the graph.

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