Find the vertex, axis of symmetry, and vertex form of the function given in standard form **without completing the square.** Then find the x-intercepts by using the vertex form of the equation.

1. $y = -3x^2 + 6x + 5$

Find the vertex, axis of symmetry, and vertex form of the function given in standard form **by completing the square**.

2.
$$y = x^2 - 10x + 5$$

Find the vertex, axis of symmetry, and vertex form of the function given in standard form without completing the square. (Use x = -b/2a)

Then find the x-intercepts using the vertex form of the equation

2.
$$y = 2x^2 - 10x + 5$$

Find the vertex, axis of symmetry, and vertex form of the function given in standard form **by completing the square**. Then find the x-intercepts using the quadratic formula

2.
$$y = 2x^2 - 10x + 5$$

1. Find the equation of the quadratic function given the following information.

2. Then find the x-intercepts of the function.

Vertex (-1, 5) Point on the quadratic function (-4, -5)

Find the vertex, axis of symmetry, and vertex form of the function given in standard form without completing the square. (Use x = -b/2a)

Then find the x-intercepts using the vertex form of the equation

2.
$$y = 2x^2 - 4x - 1$$

Find the vertex, axis of symmetry, and vertex form of the function given in standard form **by completing the square**. Then find the x-intercepts using the quadratic formula

2.
$$y = 2x^2 - 4x - 1$$