

Graphing Quadratics by finding the Vertex, Convenient Points and Symmetry

1. Find the vertex letting $x = -b/2a$ to find the y-coordinate
2. Pick a convenient point, 0 if possible, to find a second point
3. Use symmetry to find 3rd point
4. Sketch the graph

Graph: $y = 2x^2 - 4x + 5$