

Find the axis of symmetry and vertex of each function.

1. $y = x^2 - 6x + 11$

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

Tell whether the functions have a max or min. Then, find the max and min value.

3. $y = x^2 + 7x + 8$

4. $y = -5x^2 + 7$

Graph each function. Label the axis of symmetry and vertex.

5. $y = x^2 - 8x + 13$

6. $-x^2 - 8x - 13$

