

Quadratic Inequalities

1. Make a sketch of the following inequalities:

a. $y > x^2 + 3x$

b. $y < -2x^2 - 1$

c. $y < x^2 + 4x + 4$

d. $y \geq -x^2 + 5x + 6$

e. $y \leq 5x^2 - 13$

2. Using the [Desmos® Graphing Calculator](#), check that your sketches are correct.