

LESSON 3.6: QUADRATIC INEQUALITIES

Homework: _____

Learning Targets:

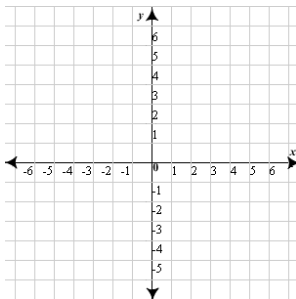
- 3e. Understanding of how to graph quadratic inequalities and solve quadratic inequalities in 1-variable.

QUADRATIC INEQUALITY IN 1 VARIABLE

$$y > ax^2 + bx + c$$

- Graph the parabola
- Shade above or below the vertex

$$y < -(x - 4)^2 + 1$$



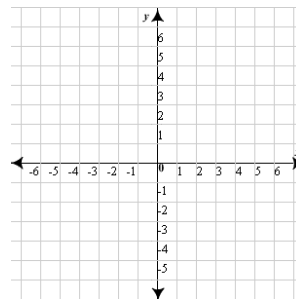
$$x^2 - 4x - 21 > 0$$

QUADRATIC INEQUALITIES IN 2 VARIABLES

$$ax^2 + bx + c > 0$$

- Graph the zeros
- Determine if above or below x -axis

$$y \geq x^2 + 4$$



$$x^2 + 5x \leq 6$$