

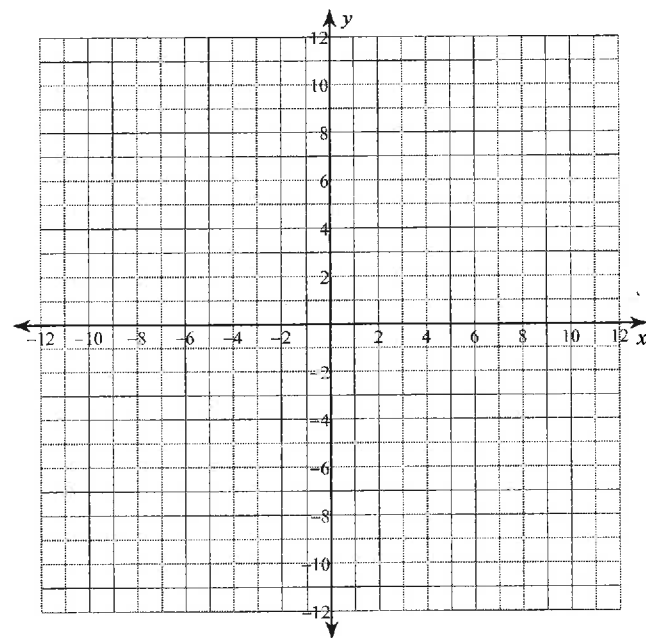
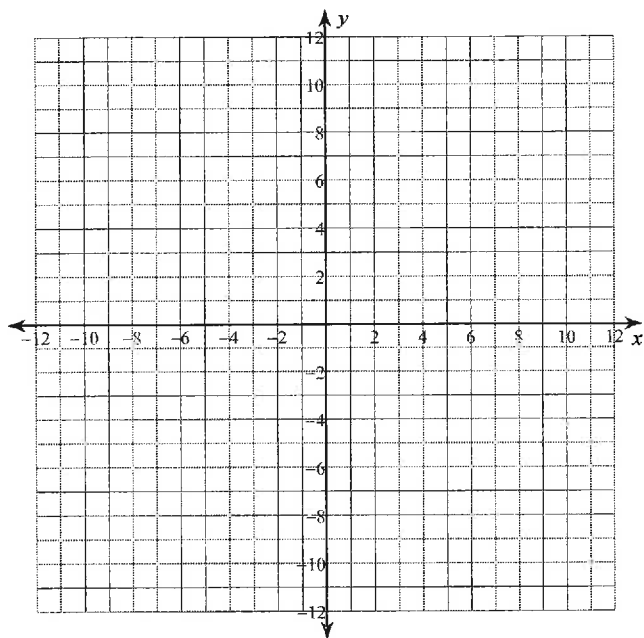
4.9B Systems of Quadratic Inequalities

Period _____

Sketch the graph of each function.

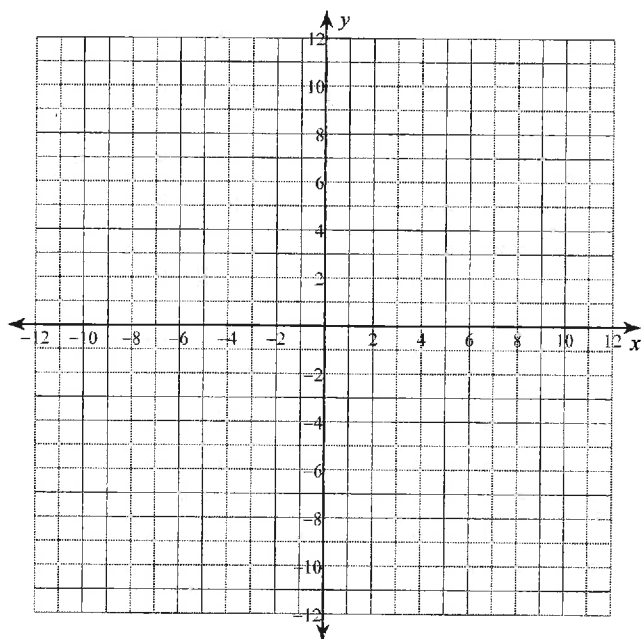
$$y < 2(x + 3)^2 - 3$$

1) $y > -2(x - 4)^2 - 4$



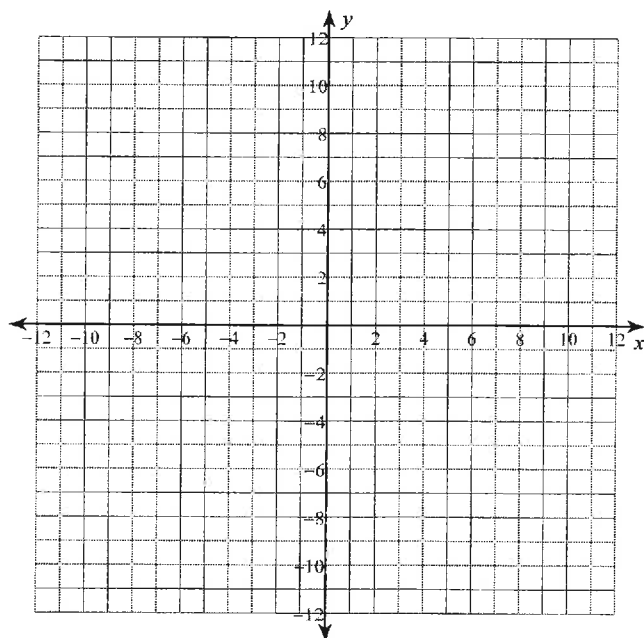
$$y < -(x - 4)^2 + 3$$

3) $y \geq \frac{1}{2}(x - 4)^2 - 4$



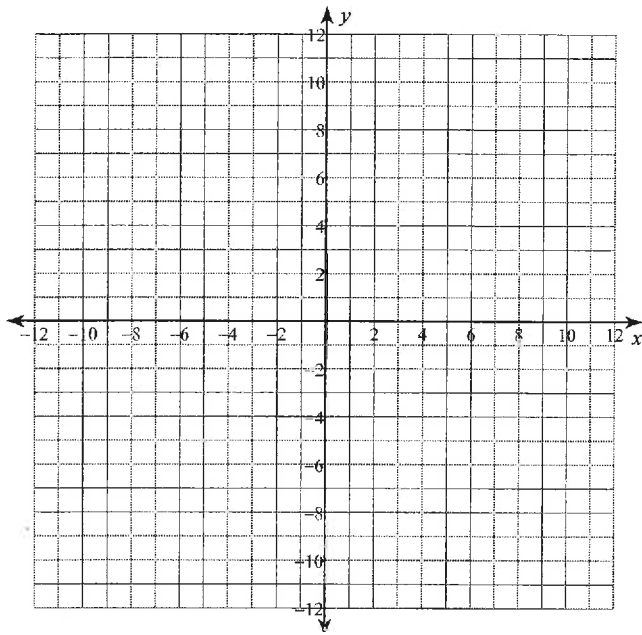
$$y \leq (x - 2)^2 - 4$$

4) $y \geq -(x + 1)^2 + 4$



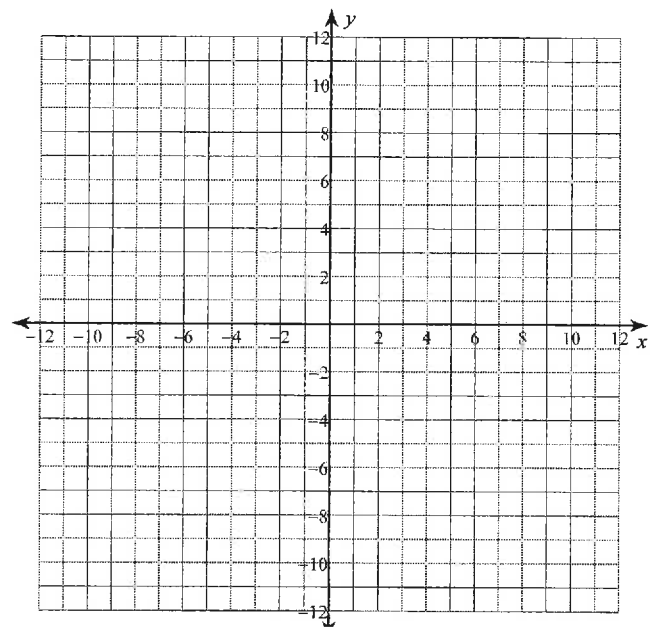
$$y < -2(x - 3)^2 + 2$$

$$5) y \geq 3(x - 4)^2 - 3$$



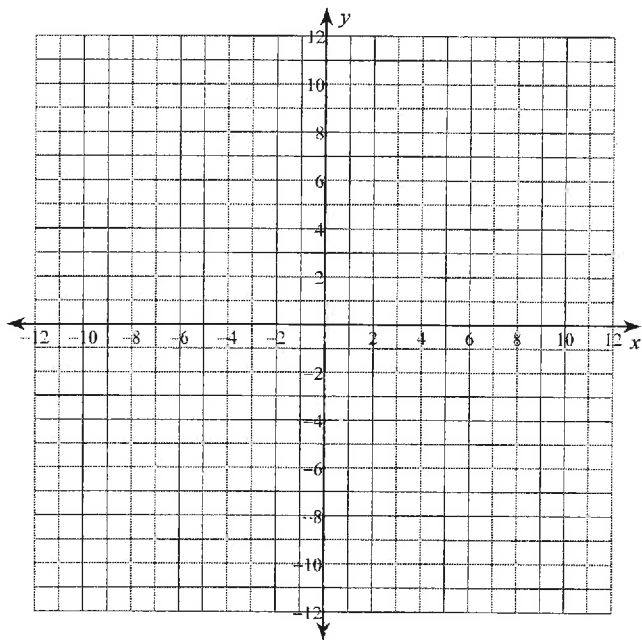
$$y < 2(x + 3)^2 - 3$$

$$6) y \geq -3(x - 4)^2 - 1$$



$$y < 2x^2 - 4x - 1$$

$$7) y > -x^2 + 4x - 6$$



$$y \geq \frac{1}{2}x^2 + 4x + 6$$

$$8) y \leq -2x^2 - 12x - 15$$

