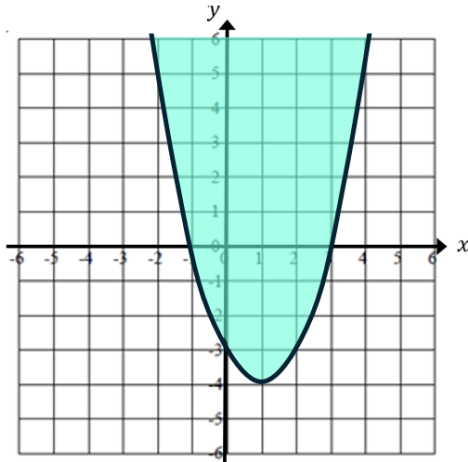


Shading Regions with Quadratic Inequalities

Shade the region or regions which satisfy the inequalities given.

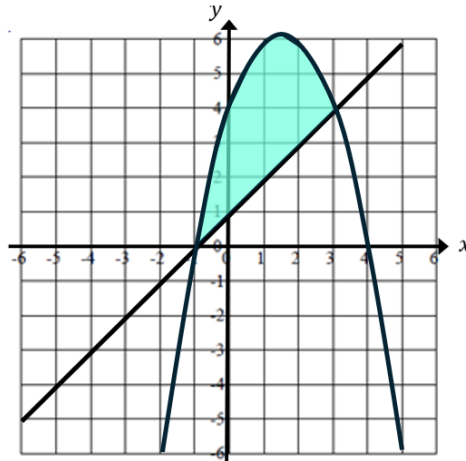
(a)

$$y > x^2 - 2x + 3$$



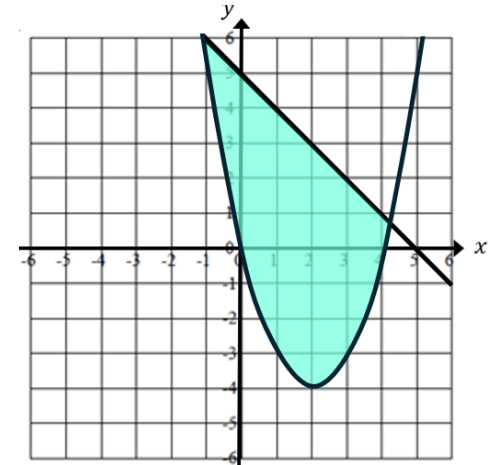
(b)

$$y \leq 4 + 3x - x^2 \text{ and } y > x + 1$$



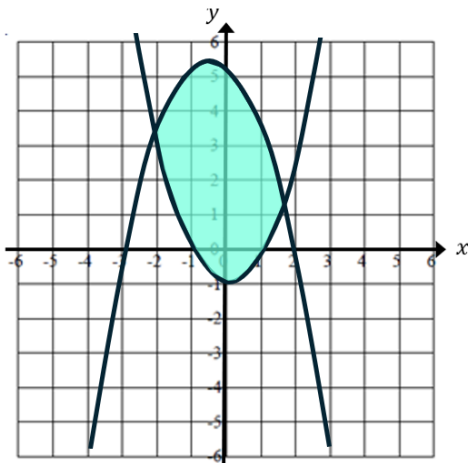
(c)

$$y \leq x^2 - 4x \text{ and } y > 5 - x$$



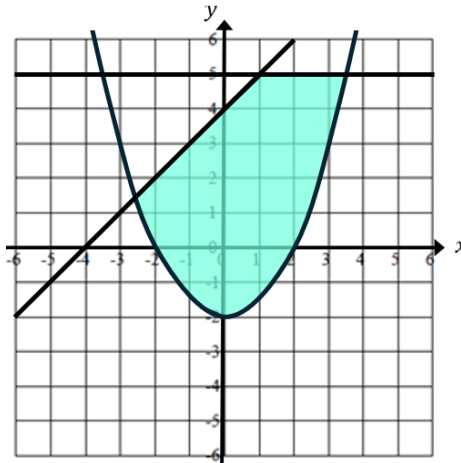
(d)

$$y > x^2 - 1 \text{ and } y \leq 6 - x - x^2$$



(e)

$$y > \frac{1}{2}x^2 - 2, y \leq x + 4 \text{ and } y < 5$$



(f)

$$y < 4 - 3x - x^2, 2x + y + 4 > 0, \\ x \leq 0 \text{ and } y > -2$$

