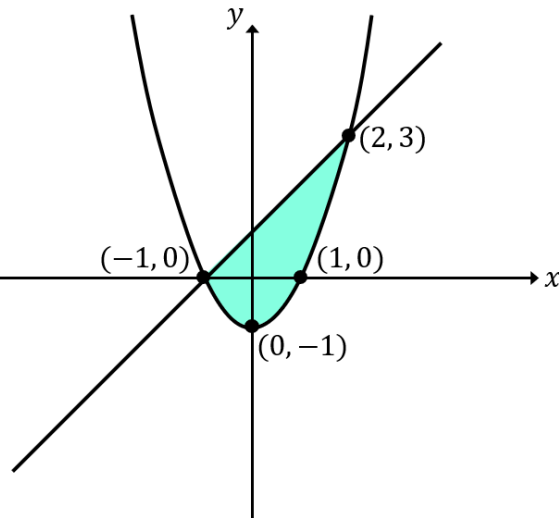


Describing Graphical Inequalities

Describe each of the shaded regions using inequalities.

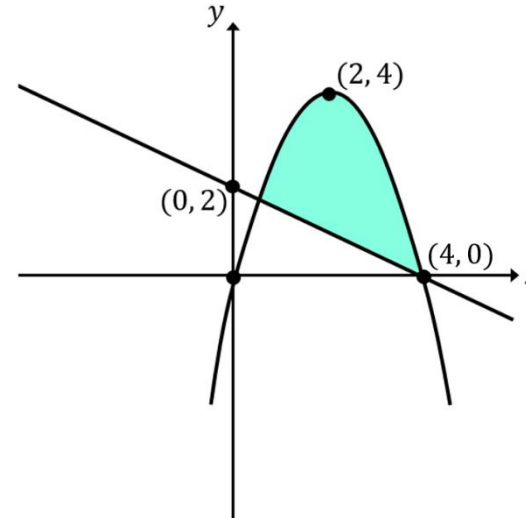
(a)



$$y \geq x^2 - 1$$

$$y \leq x + 1$$

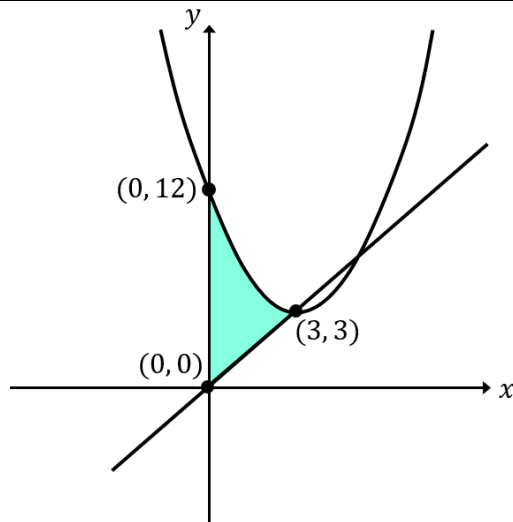
(b)



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

$$y \geq 2 - \frac{1}{2}x$$

(c)

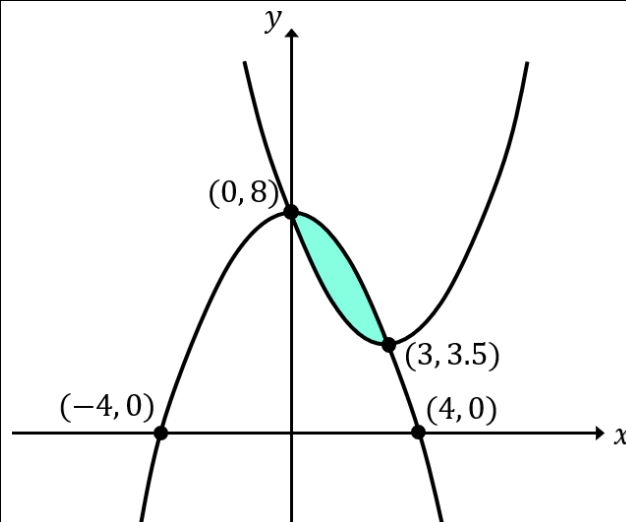


$$0 \leq x \leq 3$$

$$y \leq (x - 3)^2 + 3$$

$$y \geq x$$

(d)



$$y \leq 8 - \frac{1}{2}x^2$$

$$y \geq \frac{1}{2}(x - 3)^2 + \frac{7}{2}$$