

SISTEMAS INECUACIONES BHS

1.- a) $x < \frac{3}{64}$

b) $x > \frac{51}{6}$

c) $x \geq \frac{5}{8}$

d) $x \leq \frac{57}{14}$

e) $x \in (-\infty, 1) \cup (2, +\infty)$

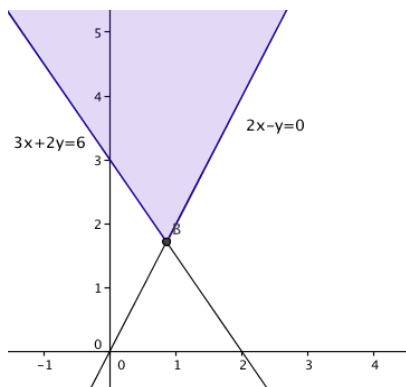
f) $x \in (-\infty, 3/2] \cup (3, +\infty)$

2.- a) $\left. \begin{array}{l} x < \frac{4}{3} \\ x \geq \frac{23}{10} \end{array} \right\} \Rightarrow \text{Sin solución}$

b) $\left. \begin{array}{l} x < 10 \\ x < -3 \end{array} \right\} \Rightarrow x < -3$

c) $\left. \begin{array}{l} x > 6 \\ x \leq 5 \end{array} \right\} \Rightarrow \text{Sin Solución}$

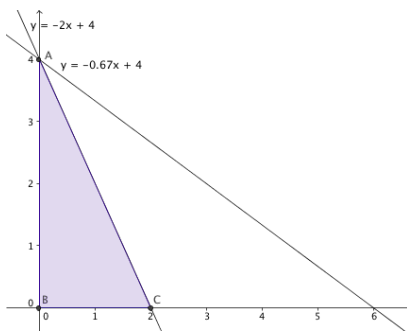
3.- a)



$2x - y < 0 \Rightarrow (0,0); (2,4)$

$3x + 2y > 6 \Rightarrow (0,3); (2,0)$

b)



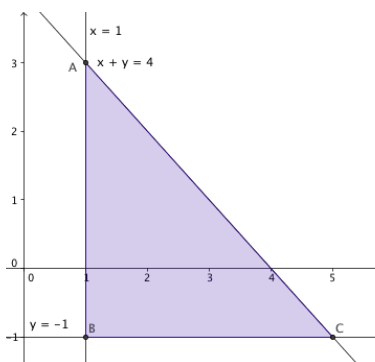
$x \geq 0$

$y \geq 0$

$y < -2x + 4 \Rightarrow (0,4); (2,0)$

$y \leq 4 - \frac{2}{3}x \Rightarrow (0,4); (6,0)$

c)

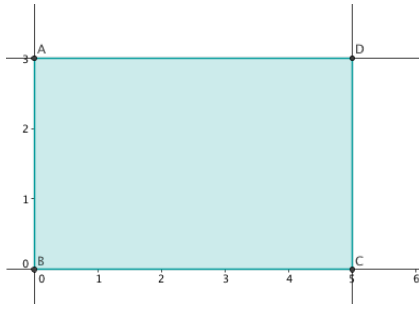


$x > 1$

$y > -1$

$x + y < 4 \Rightarrow (0,4); (4,0)$

d)

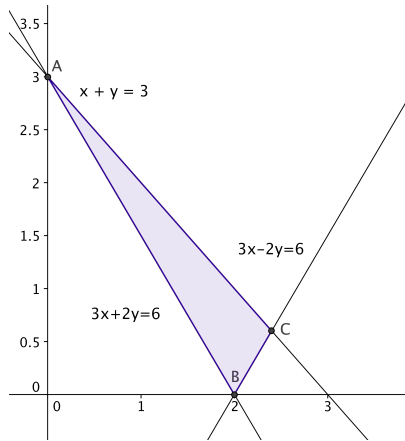


$$x > 0$$

$$0 < x < 3$$

$$x < 5$$

e)

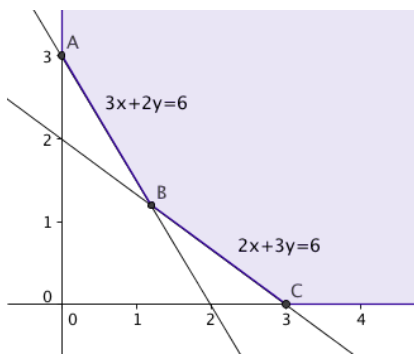


$$x + y < 3 \Rightarrow (0,3); (3,0)$$

$$3x - 2y \leq 6 \Rightarrow (0,-3); (2,0)$$

$$3x + 2y > 6 \Rightarrow (0,3); (2,0)$$

f)



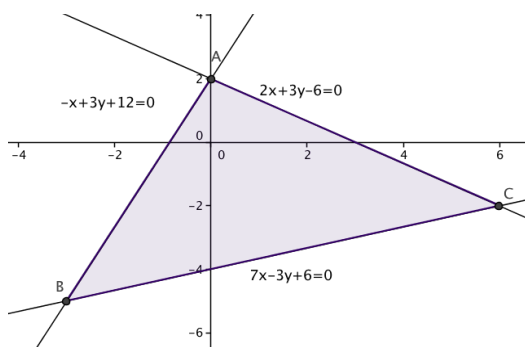
$$3x + 2y \geq 6 \Rightarrow (0,3); (2,0)$$

$$2x + 3y \geq 6 \Rightarrow (0,2); (3,0)$$

$$x \geq 0$$

$$y \geq 0$$

g)



$$2x + 3y - 6 < 0 \Rightarrow (0,2); (3,0)$$

$$7x - 3y + 6 > 0 \Rightarrow (0,2); (-6/7,0)$$

$$-x + 3y + 12 > 0 \Rightarrow (0,-4); (12,0)$$

4.- a) $x \in (3/2, 3)$

b) $x \in R$

c) $x \in (-\infty, 2) \cup (4, +\infty)$

d) $x \in [0, 3]$

e) $x \in R$

f) Sin solución

5.- a) $x \in (-\infty, 2) \cup [3, 5]$

b) $x \in (-3, -2) \cup (2, 3)$

c) $x \in (-\infty, -2) \cup (1, 0] \cup [3, +\infty)$

6.- a) $\left. \begin{array}{l} x > \frac{7}{2} \\ x \leq 8 \end{array} \right\} \Rightarrow x \in (7/2, 8]$

b) $\left. \begin{array}{l} x \in (-\infty, -2) \cup (5/2, +\infty) \\ x \geq 4 \end{array} \right\} \Rightarrow x \geq 4$