

Geovany Reconco 31711143

Ejercicios 2.1

$$66) 4x - 8 = -4(2x - 3) + 4$$

$$4x - 8 = -8x - 12 + 4$$

$$4x - 8 = -8x - 8$$

$$4x + 8x = -8 + 8$$

$$12x = 0$$

$$x = \frac{0}{12}$$

$$x = 0$$

C.S { 0 }

$$77) -3(y - 1) + 2y = 4(y - 3)$$

$$-3y - 3 + 2y = 4y + 12$$

$$-3y + 2y - 4y = 12 + 3$$

$$-5y = 15$$

$$y = \frac{15}{-5}$$

$$y = \frac{-15}{5} = -3$$

C.S { -3 }

Giovany Reconco 31711143  
89)  $2[3x + 4x - 6] = 5(x - 6)$

Ejercicios 2.1

$$2[3x + 4x - 6] = 5x - 30$$

$$2[7x - 6] = 5x - 30$$

$$14x - 12 = 5x - 30$$

$$14x - 5x = -30 + 12$$

$$9x = -18$$

$$x = \frac{-18}{9}$$

$$x = -2$$

C.S §-23

$$91) 4\{2 - [3(c+1) - 2(c+1)]\} = -2c$$

$$4\{2 - [3c + 3 - 2c - 2]\} = -2c$$

$$4\{2 - [1c + 1]\} = -2c$$

$$4\{2 - 1c\} = -2c$$

$$4\{1 - c\} = -2c$$

$$4 - 4c = -2c$$

$$4c + 2c = 4$$

$$6c = 4$$

$$c = \frac{4}{6}$$

C.S § 4/6

Geovany Recanco 31711143 Ejercicio 201

$$93) - \{ 4(d+3) - 5[3d - 2(2d+7)] - 8 \} = -10d - 6$$

$$- \{ 4d + 12 - 5[-1d + 14] - 8 \} = -10d - 6$$

$$- \{ 4d + 12 - 5d + 70 - 8 \} = -10d - 6$$

$$- \{ -1d + 82 - 8 \} = -10d - 6$$

$$- \{ -1d + 74 \} = -10d - 6$$

$$-1d + 74 = -10d - 6$$

$$-1d + 10d = -6 - 74$$

$$9d = -80$$

$$d = \frac{-80}{9}$$

C. S  $\frac{-80}{9}$

Geovany Reconcó 37717143 Ejercicio 205

$$15) x - 7 > -4$$

$$x > -4 - 7$$

$$x > -11$$



C.S.  $\{ x | x > -11, \infty \}$

$$20) 1.4x + 2.2 < 2.6x - 0.2$$

$$1.4x - 2.6x < -0.2 - 2.2$$

$$-1.2x < -2.4$$

$$(-1)(-1.2x) < (-1)(-2.4)$$

$$1.2x > 2.4$$

$$x > \frac{2.4}{1.2}$$

$$x > 2$$



C.S.  $\{ x | x > 2, \infty \}$

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26)  $2y - 6y + 10 \leq 2(-2y + 3)$

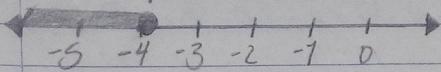
Ejercicios 2.5

$$2y - 6y + 10 \leq -4y + 6$$

$$-4y + 10 \leq -4y + 6$$

$$-4y + 4y \leq 6 - 10$$

$$y \leq -4$$



C.S  $]-\infty, -4]$

33)  $-3x + 1 < 3[x + 2 - 2x] - 1$

$$-3x + 1 < 3[x + 2 - 2x] - 1$$

$$-3x + 1 < 3[-x + 2] - 1$$

$$-3x + 1 < 3x + 6 - 1$$

$$-3x + 1 < 3x + 5$$

$$-3x - 3x < 5 - 1$$

$$-6x < 4$$

$$(-1)(-6x) > (-1)(4)$$

$$6x > -4$$

$$x > \frac{-4}{6}$$

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26)  $2y - 6y + 10 \leq 2(-2y + 3)$

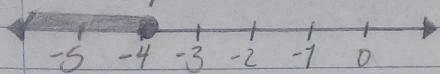
Ejercicios 2.5

$$2y - 6y + 10 \leq -4y + 6$$

$$-4y + 10 \leq -4y + 6$$

$$-4y + 4y \leq 6 - 10$$

$$y \leq -4$$



C.S  $[-\infty, -4]$

33)  $-3x + 1 \leq 3[x + 2 - 2x] - 1$

$$-3x + 1 \leq 3[x + 2 - 2x] - 1$$

$$-3x + 1 \leq 3[-x + 2] - 1$$

$$-3x + 1 \leq 3x + 6 - 1$$

$$-3x + 1 \leq 3x + 5$$

$$-3x - 3x \leq 5 - 1$$

$$-6x \leq 4$$

$$(-1)(-6x) \geq (-1)(4)$$

$$6x \geq -4$$

$$x \geq \frac{-4}{6}$$

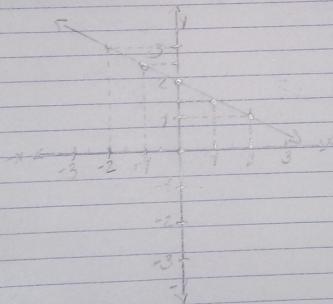
Geovany Recono 31714143 Ejercicio 3.3

20)  $x + 2y = 4$

$$2y = 4 - x$$
$$y = \frac{4-x}{2}$$

X	y	$x = -2$	$x = -1$
-2	3	$y = 4 - (-2)$	$y = 4 - (-1)$
-1	2	2	2
0	2	$y = \frac{4-0}{2}$	$y = \frac{4-(-1)}{2}$
1	1.5	$y = \frac{4-1}{2}$	$y = \frac{4-(-2)}{2}$
2	1	$y = \frac{4-2}{2}$	$y = \frac{4-(-3)}{2}$

$$\begin{array}{lll} x=0 & x=1 & x=2 \\ y=\frac{4-0}{2} & y=\frac{4-1}{2} & y=\frac{4-2}{2} \\ y=2 & y=1.5 & y=1 \end{array}$$



Geovany Recinos 31711143 Ejercicio 3.3

$$35) 2x + 4y = 0$$

$$4y = 0 - 2x$$

$$\therefore y = \frac{0 - 2x}{4}$$

x	y
-1	0.5
0	0
1	-0.5

$$x = -1$$

$$y = \frac{0 - 2(-1)}{4}$$

$$y = \frac{2}{4}$$

$$y = 0.5$$

$$y = \frac{0 - 2(0)}{4}$$

$$y = 0$$

$$y = \frac{0 - 2(0)}{4}$$

$$y = 0$$

$$x = 1$$

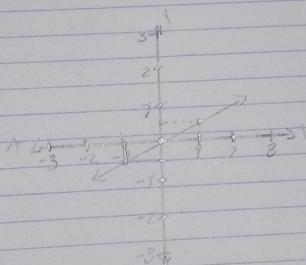
$$y = \frac{0 - 2(1)}{4}$$

$$y = \frac{-2}{4}$$

$$y = -0.5$$

$$y = \frac{-2}{4}$$

$$y = -0.5$$



Ecuación Recta 3771143 Ejercicio 3.4  
19)  $(4, 2)$  y  $(4, -1)$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{-1 - 2}{4 - 4}$$

$$m = \frac{1}{0} = 1 \text{ } \cancel{\Delta}$$

$$y - y_0 = m(x - x_0)$$

$$y - 2 = 1(x - 4)$$

$$y - 2 = x - 4$$

$$y = x - 4 + 2$$

$$y = x - 2 \cancel{\Delta}$$

Geovany Reconda 31.711143 Ejercicio 3.4  
21) (-3,4) y (-1,4)

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{4 - 4}{-1 - (-3)}$$

$$m = \frac{0}{2}$$

$$m = 0$$

$$y - y_0 = m(x - x_0)$$

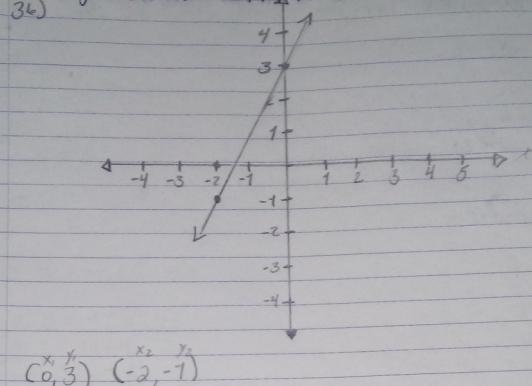
$$y - 4 = 0(x - (-3))$$

$$y - 4 = 0x + 0$$

$$y = 0x + 0 + 4$$

$$y = 0x + 4$$

Giovany Rebolledo 31714143 Ejercicio 3-4  
36)



$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{-1 - 3}{-2 - 0}$$

$$m = \frac{-4}{-2}$$

$$m = -2$$

Geovany Reconco 31711143 Ejercicio 3.5  
5) Pendiente = 2 pasa por (1,1).

$$\begin{aligned}y - y_0 &= m(x - x_0) \\y - 1 &= 2(x - 1) \\y - 1 &= 2x - 2 \\y &= 2x + 2 - 1 \\y &= 2x + 1\end{aligned}$$

13) Pasa por (4, -3) y (6, -2)

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{-2 - (-3)}{6 - 4}$$

$$m = \frac{-1}{2}$$

$$\begin{aligned}y - y_0 &= m(x - x_0) \\y - (-3) &= \frac{-1}{2}(x - 4)\end{aligned}$$

$$y + 3 = \frac{-1}{2}x - 2$$

$$y = \frac{-1}{2}x - 2 - 3$$

$$y = \frac{-1}{2}x - 5$$

Ecuación Recta 31711143 Ejercicio 3.5  
21)  $y = \frac{1}{5}x + 1$

$$y = -5x + 2$$

$(-5)(\frac{1}{5}) = -1$  La Ecuación Representa  
líneas Perpendiculares.

27)  $y = \frac{1}{2}x - 6$

$$-3y = 6x + 9$$

$$y = \frac{6x + 9}{-3}$$

$$y = -2x - 3$$

$(-2)(\frac{1}{2}) = -1$

La Ecuación Representa  
líneas Perpendiculares.