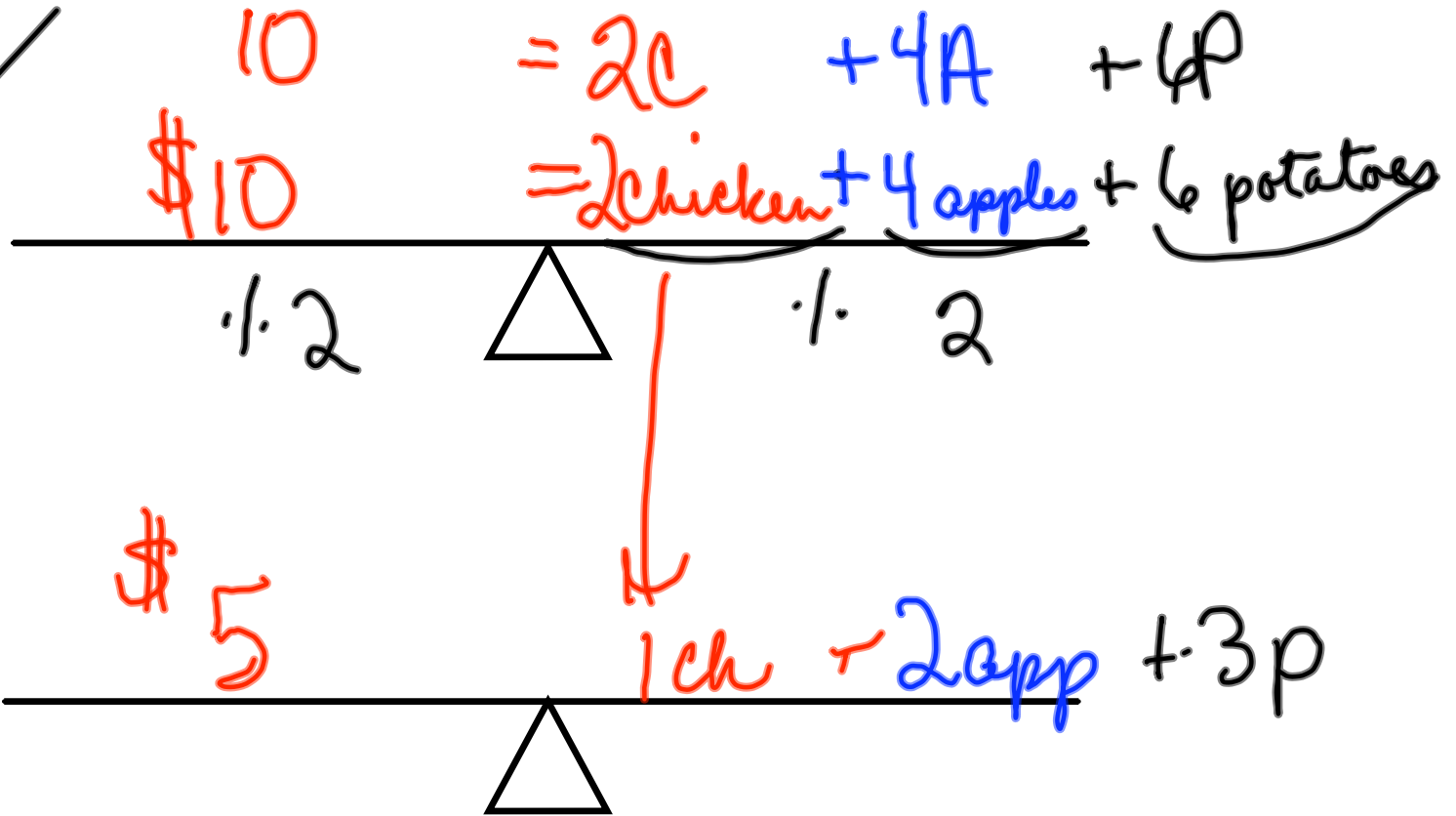


WB
4.2



$$\frac{10}{2} = \frac{2c + 4a + 6p}{2}$$
$$5 = \frac{2c}{2} + \frac{4a}{2} + \frac{6p}{2}$$
$$5 = 1c + 2a + 3p$$

$$\frac{2x \cdot 10}{3 \cdot 10} + \frac{4y \cdot 6}{5 \cdot 6} + \frac{1}{2} z \cdot \frac{15}{15} =$$

2/2/15

$$\frac{20x}{30} + \frac{24y}{30} + \frac{15z}{30} =$$

$$\frac{20x + 24y + 15z}{30}$$

Solve
for y

$$3x + 2y = 18$$
$$-3x \qquad -3x$$

$$\frac{2y}{2} = \frac{18 + -3x}{2}$$

$$\frac{1}{3} = \frac{1}{3}$$

$$y = \frac{18}{2} + \frac{-3x}{2}$$

$$y = 9 + \frac{-3x}{2}$$

$$y = 9 + -1.5x$$

4.2

#4)

$$-6x + y = 11$$

+6x

+6x

$$y = 11 + 6x$$

#6)

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

+ -6x

+ -6x

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

$$y = 3 + 2x$$

#8)

$$10x - 5y = 25$$

+ -10x

+ -10x

$$\frac{-5y}{-5} = \frac{25 + -10x}{-5}$$

$$y = -5 + 2x$$

graph

10) $x + y = 14$

$(0, 14)$

$(8, 6)$

$(7, 7)$

$(9, 5)$

$2y - 8 = 10$
 $2y = 18$
 $y = 9$

12) $2y - 4x = 10$

x	y
0	5
1	7
2	9

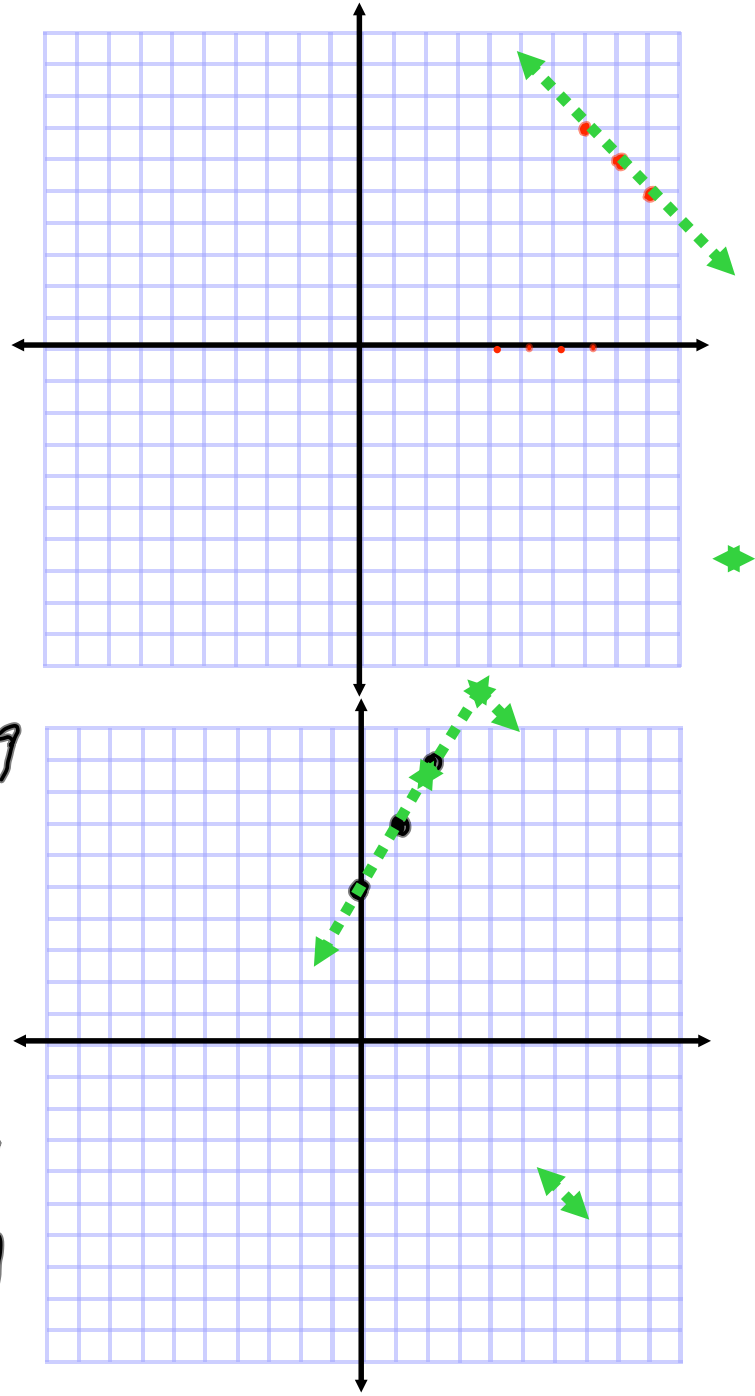
$2y - 0 = 10$

$2y = 10$

$2y - 4 = 10$

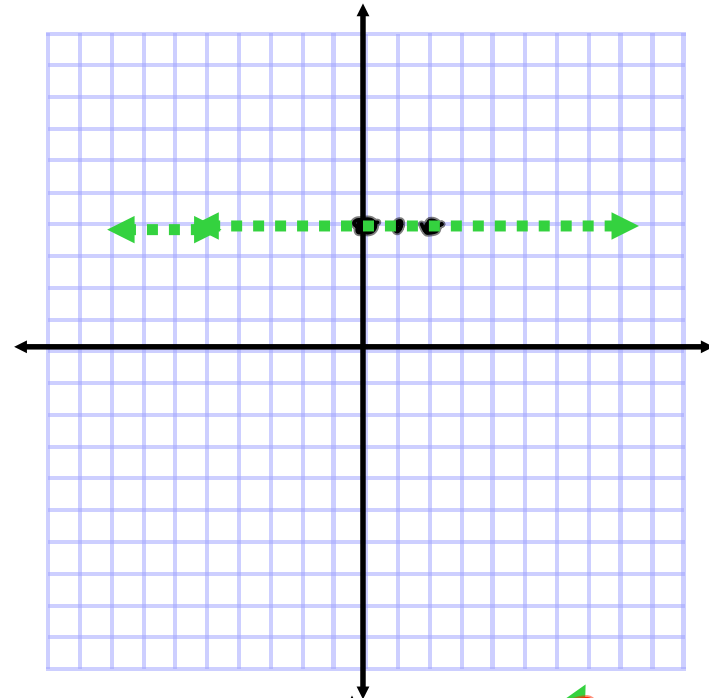
$2y = 14$

$y = 7$



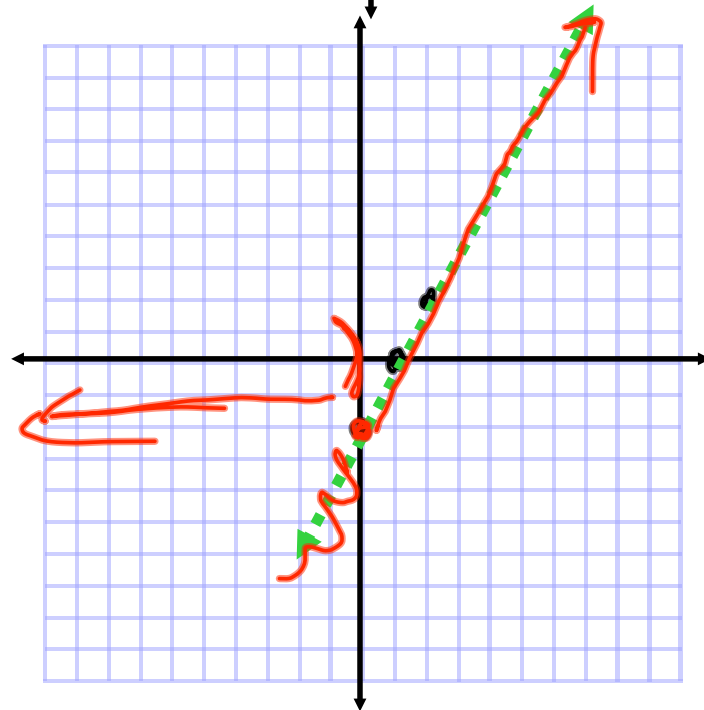
$$14) \quad y = 4$$

x	y
0	4
1	4
2	4



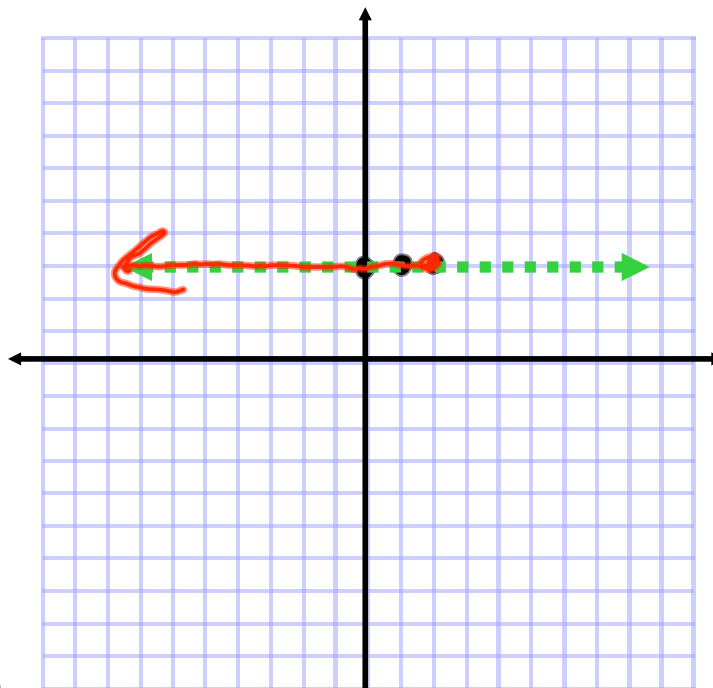
$$16) \quad y = 2x - 2 \quad \{ x \geq 0$$

x	y
0	-2
1	0
2	2



18) $y=3$ } $x \leq 2$

x	y
0	3
1	3
2	3



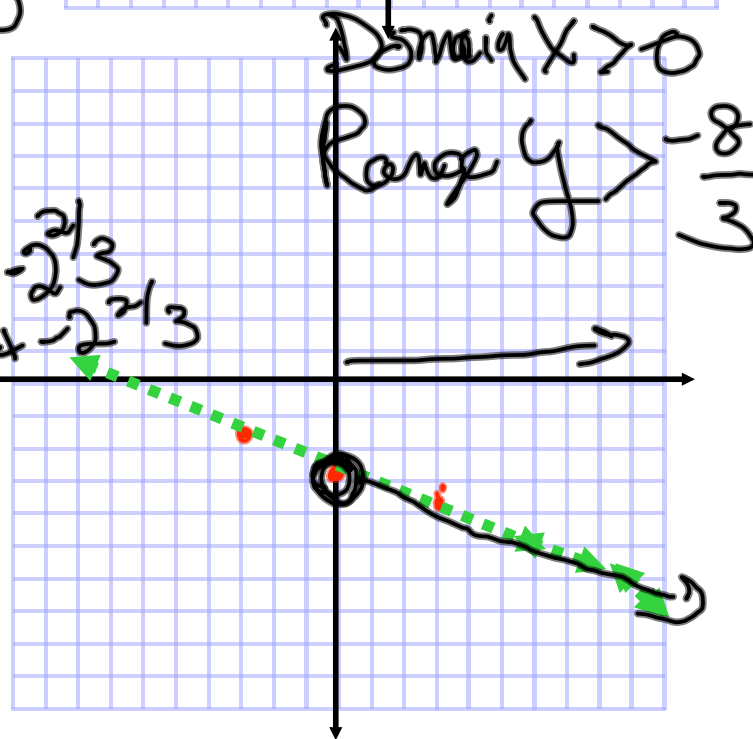
20) $x+3y=-8$ $x > 0$

$$\frac{3y}{3} = \frac{-x + -8}{3}$$

$$y = -\frac{1}{3}x + \frac{-8}{3}$$

x	-3	0	3
y	$1\frac{1}{3}$	$-\frac{2\frac{2}{3}}$	$-3\frac{2}{3}$

$$\begin{matrix} +1 & + & -2 & \frac{2}{3} \\ -1 & + & -2 & \frac{2}{3} \end{matrix}$$



22) \$8 for hr.

C - cost of rental

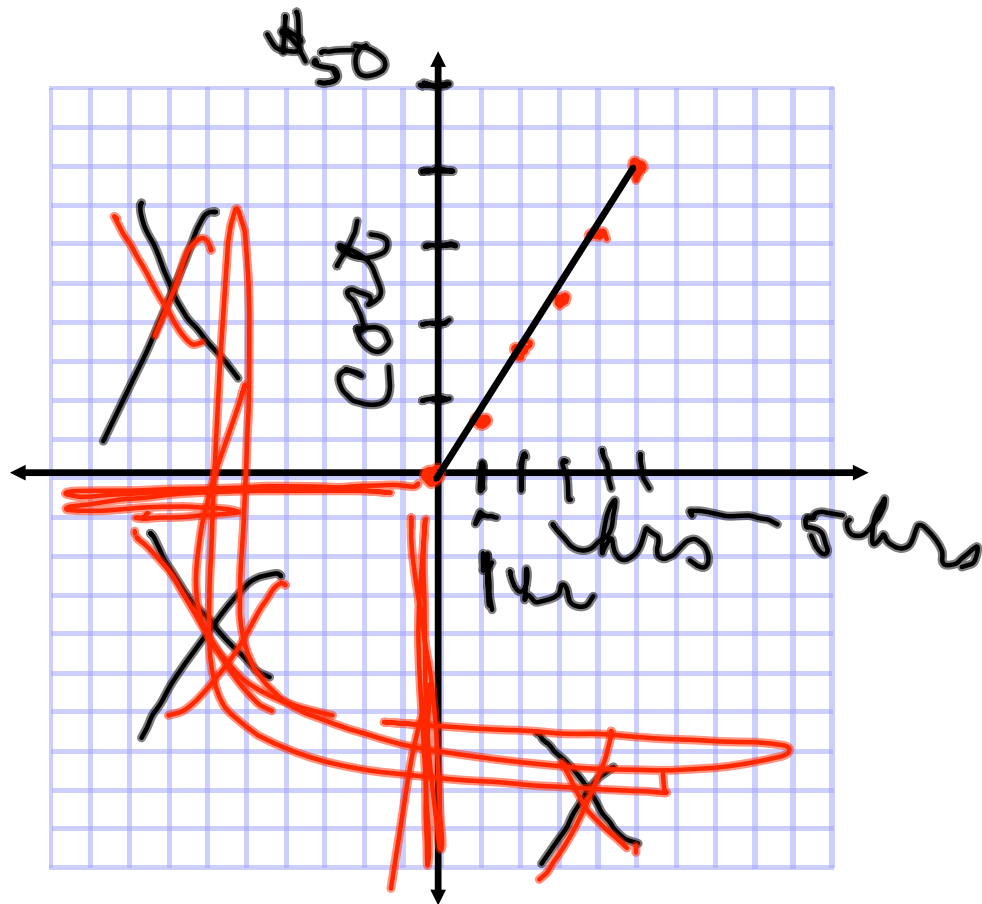
h - hours

$$C = 8h$$

at most 5 hrs

$$0 \leq h \leq 5$$

$$0 \leq C \leq 40$$



$$\text{Domain} = \{0 \leq h \leq 5\}$$

$$\text{Range} = \{0 \leq C \leq 40\}$$