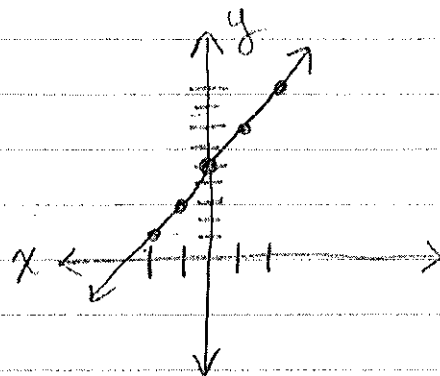


HW pg 257 (10-20 even, 21-26)

10)  $y = 2x + 5$

x	y
-2	1
-1	3
0	5
1	7
2	9

$$\begin{aligned}y &= 2(-2) + 5 = -4 + 5 = 1 \\y &= 2(-1) + 5 = -2 + 5 = 3 \\y &= 2(0) + 5 = 0 + 5 = 5 \\y &= 2(1) + 5 = 2 + 5 = 7 \\y &= 2(2) + 5 = 4 + 5 = 9\end{aligned}$$



12)  $y = 5 + 2x$

x	y
-2	1
-1	3
0	5
1	7
2	9

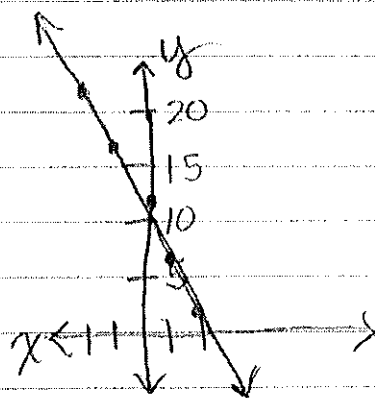
$$\begin{aligned}y &= 5 + 2(-2) = 5 - 4 = 1 \\y &= 5 + 2(-1) = 5 - 2 = 3 \\y &= 5 + 2(0) = 5 + 0 = 5 \\y &= 5 + 2(1) = 5 + 2 = 7 \\y &= 5 + 2(2) = 5 + 4 = 9\end{aligned}$$

same graph  
as above

14)  $y = -5x + 12$

x	y
-2	22
-1	17
0	12
1	7
2	2

$$\begin{aligned}y &= -5(-2) + 12 = 10 + 12 = 22 \\y &= -5(-1) + 12 = 5 + 12 = 17 \\y &= -5(0) + 12 = 0 + 12 = 12 \\y &= -5(1) + 12 = -5 + 12 = 7 \\y &= -5(2) + 12 = -10 + 12 = 2\end{aligned}$$



16)  $y = 4x - 5$

x	y
-2	-3
-1	-1
0	1
1	3
2	5

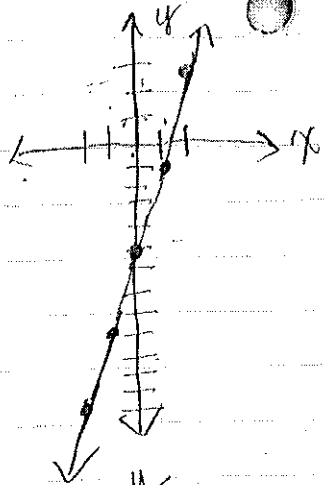
$$y = 4(-2) - 5 = -8 - 5 = -13$$

$$y = 4(-1) - 5 = -4 - 5 = -9$$

$$y = 4(0) - 5 = 0 - 5 = -5$$

$$y = 4(1) - 5 = 4 - 5 = -1$$

$$y = 4(2) - 5 = 8 - 5 = 3$$



18)  $y = 2x - 1$

x	y
-2	-5
-1	-3
0	-1
1	1
2	3

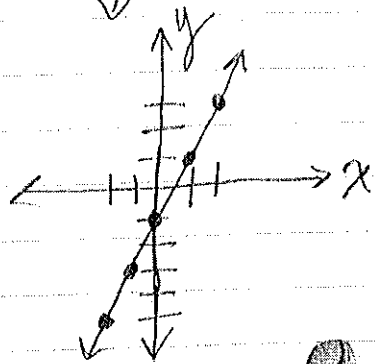
$$y = 2(-2) - 1 = -4 - 1 = -5$$

$$y = 2(-1) - 1 = -2 - 1 = -3$$

$$y = 2(0) - 1 = 0 - 1 = -1$$

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

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



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

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

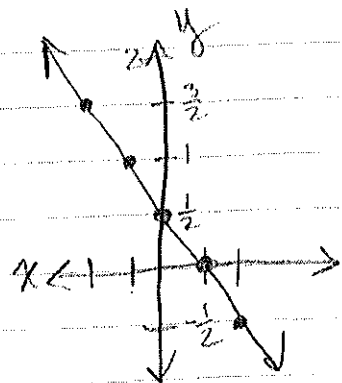
$$y = -\frac{1}{2}(-2) + \frac{1}{2} = 1 + \frac{1}{2} = \frac{3}{2}$$

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

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

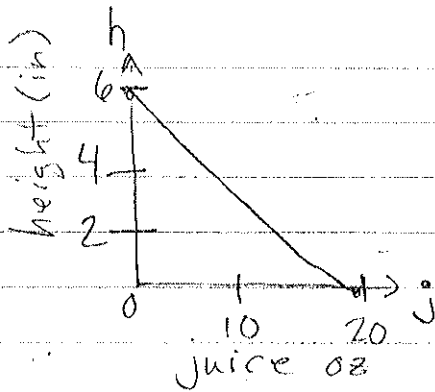
$$y = -\frac{1}{2}(1) + \frac{1}{2} = -\frac{1}{2} + \frac{1}{2} = 0$$

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



21)  $y = 6 - 0.3j$

The domain is  $0 \leq j \leq 20$   
 The range is  $0 \leq h \leq 6$



The graph is continuous

22)  $w = 37,000 + 4200c$

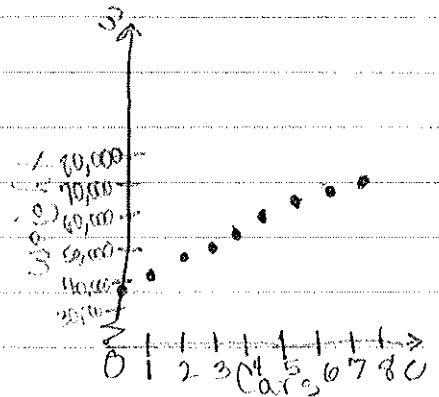
The domain is  $0 \leq c \leq 8$   
 The range is  $37,000 \leq w \leq 70,600$

$$37,000 + 4200(8)$$

$$37,000 + 33,600$$

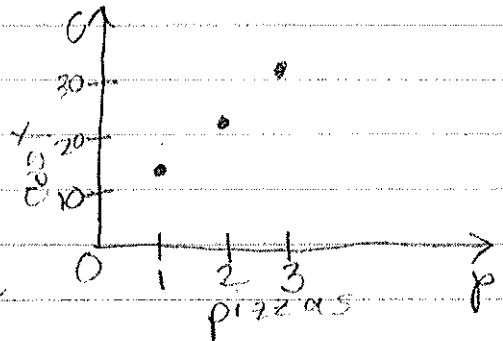
$$70,600$$

The graph is discrete because the cars are whole numbers.



23)  $c = 5 + 9p$

The domain is  $p \geq 0$   
 The range is  $c \geq 14$



The graph is discrete because the pizzas are whole.

24)  $y = |x| - 7$

x	y
-2	-5
-1	-6
0	-7
1	-6
2	-5

$$y = |-2| - 7 = 2 - 7 = -5$$

$$y = |-1| - 7 = 1 - 7 = -6$$

$$y = |0| - 7 = 0 - 7 = -7$$

$$y = |1| - 7 = 1 - 7 = -6$$

$$y = |2| - 7 = 2 - 7 = -5$$

