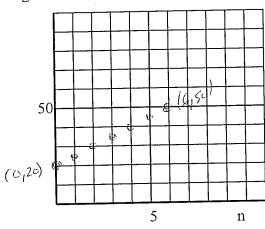
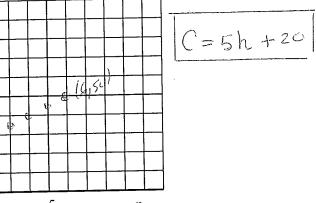
1. Mike works as a radio repairman. He charges \$5/h plus a flat fee of \$20. If hrepresents the number of hours he works, and C represents his total fee, determine the equation relating the total charges to the hours worked.

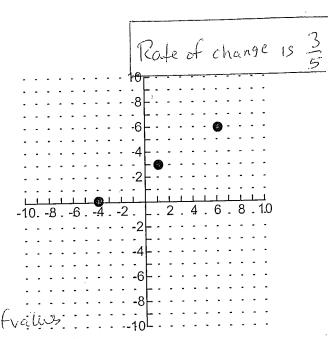
h	C
0	20
1	15
2	35 35
3	35.
4	40
5	45
6	50





2. Determine the rate of change for the following.

	<i>,</i>		
X	1	2	3
y	5	8	11_
Ro	ate o	fchang	ie
=	8-	-	
=	= 3		•



3. Determine the relation that matches the table of value:

رتا اذ	ale of	Change	and start	1116 1100
Ó	x	<i>41</i>	5 €	·9 /·/
1	ν	78	10	13
4	<u> </u>			

3. Determine the relation that matches the table
$$\frac{1}{4}$$
 rate of change and starting number.

That rate of change and starting number.

a) $\frac{1}{4}$ $\frac{1$

4. Determine the rate of change and starting number for the relation y = -3x + 7.

$$r/c = -3$$

5. A linear relation passes through (3, 4) and (7, 6). What is the rate of change?

$$r/c = \frac{6-4}{7-3}$$
$$= \frac{2}{4}$$

14. A number is doubled and then 7 is added. The result is 31. What is the number?

$$2x + 7 = 31$$

17. A mountain climber begins his climb at 750 m and proceeds to climb at a rate of 20 m per minute. How long will it take to climb to an altitude of 1290 m? A = 20x + 750

15. At the Haliburton Golf Club, the entrance fee is \$50, while the per game charge is \$7.50 per game. How many games can be played for a total of \$290? C = 50 + 7.50n

$$\frac{50}{290} = 50 + 7.50$$
n
 $n = 3$

18. An airplane at an altitude of 3000m begins its descent at 150m/minute.How long until the plane lands? ---an altitude of zero---A = 3000 - 150n

$$0 = 3000 - 1501$$

 $h = 20 minutes$

16.A local pizza store charges \$5 for the basic pizza plus \$0.50 per topping.

$$C = 0.50n + 5$$

How many toppings for \$\$
\$10,50

answer

11 toppins

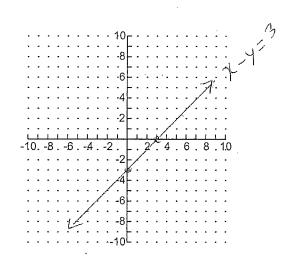
6. Graph and label y = -2x + 4 using a table of values,

Х	у	
-3	16	-2(-3)+4
-1	ت)	~2(-1)+4
0	4	
1	2	
2	O	
	x -3 -1 0 1	x y -3 16 -1 6 0 4 1 2 2 0

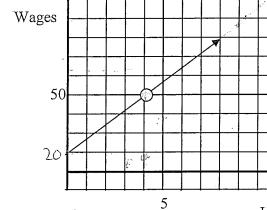
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7. Graph and label x - y = 3

X	у
2	-1
3	0
4	1
5	2.
6	3



- 8. a) Determine Peggy's hourly rate of pay from the graph.
- b) Estimate her wages for 6 hours of work. c) How many hrs does she need to work to earn \$90?



hourly rate =
$$\frac{50-20}{4-0}$$

= $\frac{30}{4}$
= $\frac{4}{7.50/h}$

2) 1 = 1,50

a)
$$\frac{2x}{5} - 3 = 1$$

b)
$$\frac{3}{a} - 1 = \frac{2}{5}$$

c)
$$\frac{x}{2} + 3 = 1$$

$$\frac{27}{5}$$
 - 3+3 = 1+3

a)
$$\frac{2x}{5} - 3 = 1$$

b) $\frac{3}{a} - 1 = \frac{2}{5}$
c) $\frac{x}{2} + 3 = 1$
 $\frac{2x}{5} - 3 + 3 = 1 + 3$
 $\frac{5a(\frac{3}{a}) - 5a(1)}{5} = \frac{5a(\frac{2}{5})}{2}$
 $\frac{x}{2} + 3 - 3 = 1 - 3$

$$\frac{\chi}{2} + 3 - 3 = 1 - 3$$

$$\frac{2x}{5} = 4$$

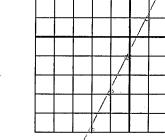
$$\frac{1}{2} = -2$$

$$5\left(\frac{2x}{5}\right) = 5(4)$$

10. Solve
$$2x-1=5$$
 and verify your solution by graphing. See page 222

$$271 - 1 = 5$$

a)
$$2x-1+1=5+1$$



b) verify