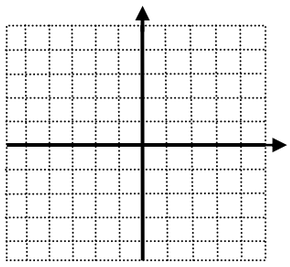
MFM 2P1 Name:_____

Linear Relations Review

1. Plot the following points on the grid below.

A: (5,3) B: (-3,4) C: (2,0)

D: (0,-5) E: (-3,-5)

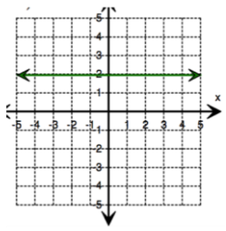
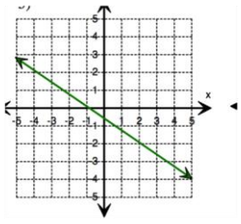
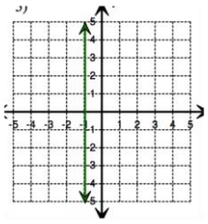
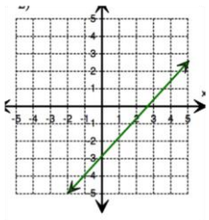


2. The table below shows earnings from a summer job cutting lawns.

Number of Lawns	Total Earned ($)
3	25.50
5	42.50
7	59.50
9	76.50

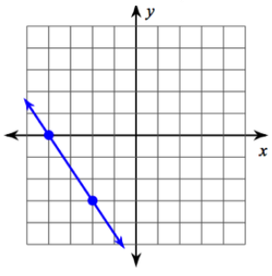
a) Determine the rate of change from the following table.
b) What does the rate of change mean in terms of the problem?

3. Identify the following slopes as positive, negative, zero or undefined.

4. Determine the slope for each of the following:

a)



b) (5,1) and (9,4)

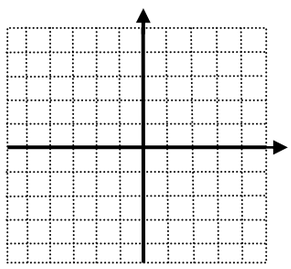
c)

x	y
5	5
7	3
9	1
11	-1

5. Graph the following using slope and y-intercept:

a) $y = -2x + 4$

b) $y = \frac{2}{3}x - 4$

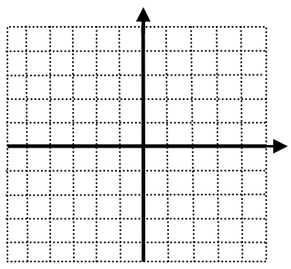


c) $x = -4$

d) $y = 3$

e) $y = \frac{-3}{4}x + 1$

f) $y = 5 - 3x$

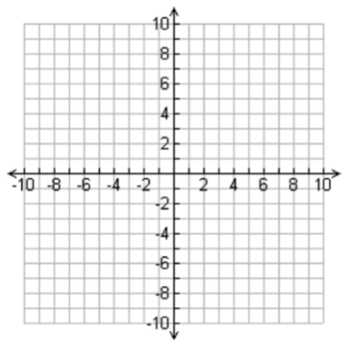


g) $y = x$

h) $y = 4x - 3$

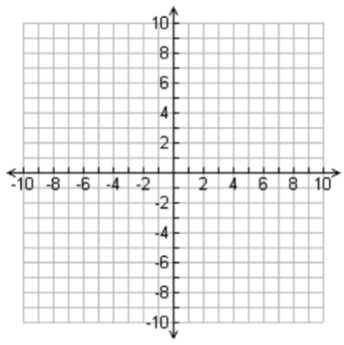
6. Make a table of values and graph the following relations:

a) $y = 3x - 1$ b) $y = x + 2$



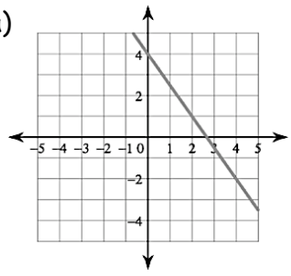
7. Determine the x and y-intercepts by making a table, then graph each relation.

a) $2x + 3y = -6$ b) $x - 2y = -8$ c) $5x - y = 5$

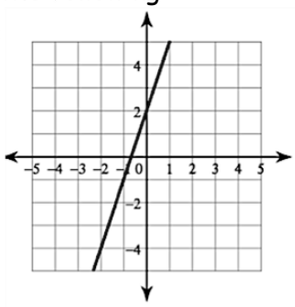


8. Determine the equation in $y = mx + b$ for the following:

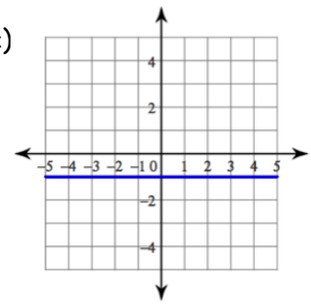
a)



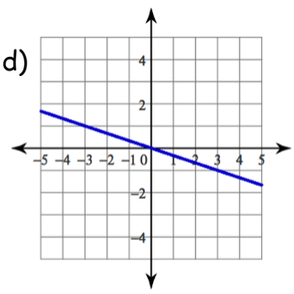
b)



c)



d)



e)

x	y
-1	5
0	8
2	14
5	23

f)

x	y
-3	7
-1	3
0	1
6	-11

9. Determine the equation of the line in $y = mx + b$ if:

a) $m = 3$ and it pass thru (4,6) b) $m = -5$ and it pass thru (-2,7)