MFM 2P1

Name:_____

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Graphing Test

1. Label the graph properly, with the following:
   a) x and y-axis b) Origin c) The 4 quadrants

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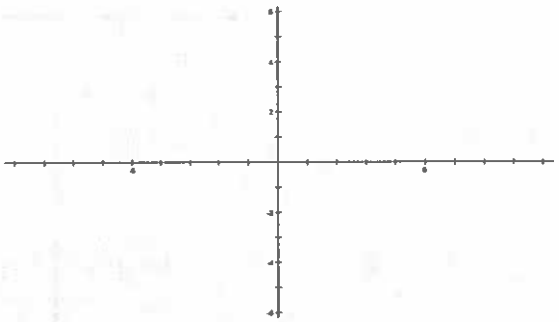

2. Determine the co-ordinates of the following points:

A B C D E

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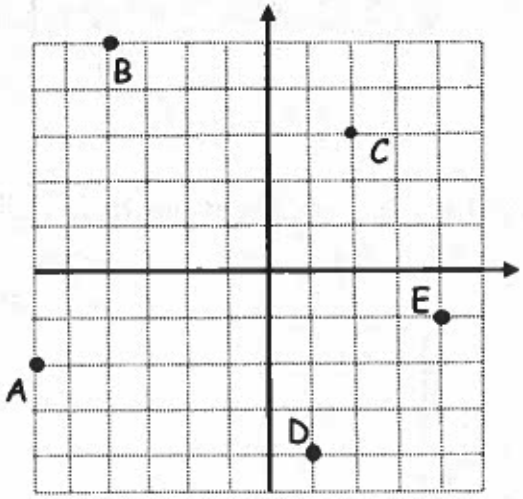

3. a) Complete the following tables of values.

X	Y
0	7
2	5
4	3

X	Y
5	-1
1	-2
-3	-3

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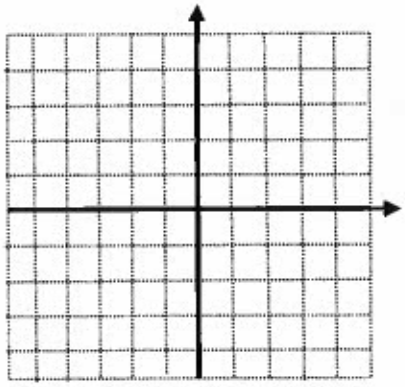
b) Which of these two tables of values represent linear relationships?

4. For each of the following equations, make a table of values and graph the relationship.

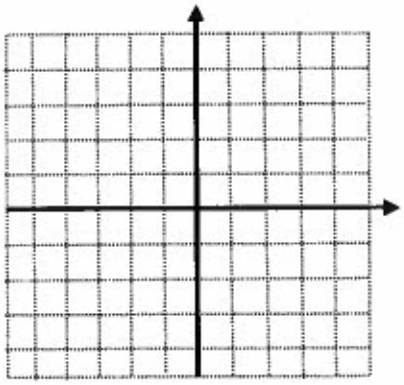
a) $y = x - 5$

X	Y



6 b) $y = -2x + 4$

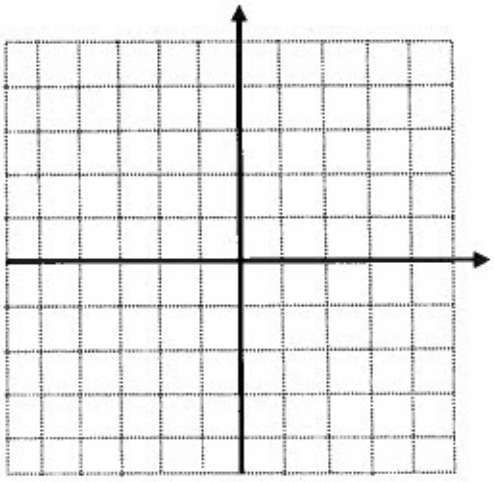
X	Y



5. Graph the following lines using the slope-intercept method. (Label the graphs)

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

b) $y = \frac{1}{4}x - 1$



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6. Determine which of the following points lie on the line $y = 2x + 5$.

2 A (3,10) B(-2,1) C(1,7) D(-3,-1)

7. Match the following slopes with their correct graphs.

a) Positive b) Negative c) Zero Slope d) Undefined Slope

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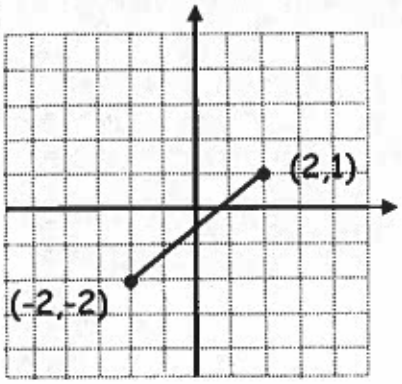
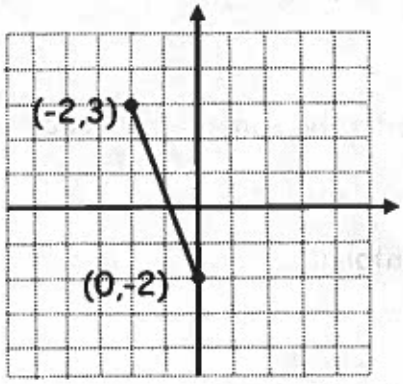
8. For each of the following find the slope of the line joining the points.

a)



b)



c) A (4,-3), B (-6,7)

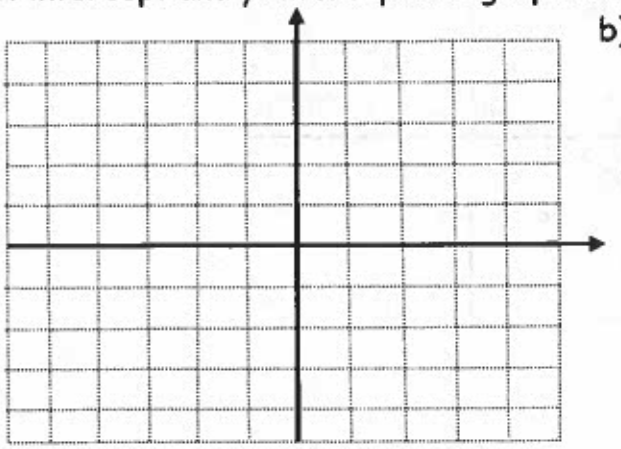
d) M (1,8), N (-2,-4)

9. Determine the x-intercept and y-intercept and graph the following lines.

a) $4x + 2y = 8$

b) $6x - 4y = 12$

6



10. Rearrange the following equations into $y = mx + b$, then state the slope and y-intercept.

8 a) $4x + y = -3$ b) $2x - 5y = 10$ c) $3x - y = 6$

11. For each of the following, write an appropriate pair of equations.

a) Two parallel lines

b) Two lines with the same y-intercept

5

c) Two horizontal lines

d) Two lines that are positive

e) Two lines that have nothing in common

Bonus

Given the following graph, determine the equation of the line.

2