Back of blue sheet

4. $A(\overset{x_1}{5}, \overset{y_1}{9})$ $B(\overset{x_2}{7}, \overset{y_2}{8})$

$$m = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{8-9}{7-5} = \frac{-1}{2}$$

8. $K(2,5)$ $L(0,8)$ — x_1, y_1 x_2, y_2

$$m = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{8-5}{0-2} = \frac{3}{-2}$$

10.

12.

10) $(3,4)$ $D(-2,-5)$

$x_1 \quad y_1$

$$M = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-5-4}{-2-3} = \frac{-9}{-5}$$

n $(-6,9)$ $N(4,5)$

$x_2 \quad y_2$

$$M = \frac{\Delta y}{\Delta x} = \frac{y_2 - y}{x_2 - x}$$

Co-ordinate Geometry REVIEW

1) Complete the table of values. Write an equation to describe the relation.

a) The sum of the numbers is –5.

x	y
-2	-3
-1	-4
0	-5
1	-6
2	-7

The Equation is: $x + y = -5$

b) The first number is triple the second plus four.

x	y
10	2
7	1
4	0
1	-1
-2	-2

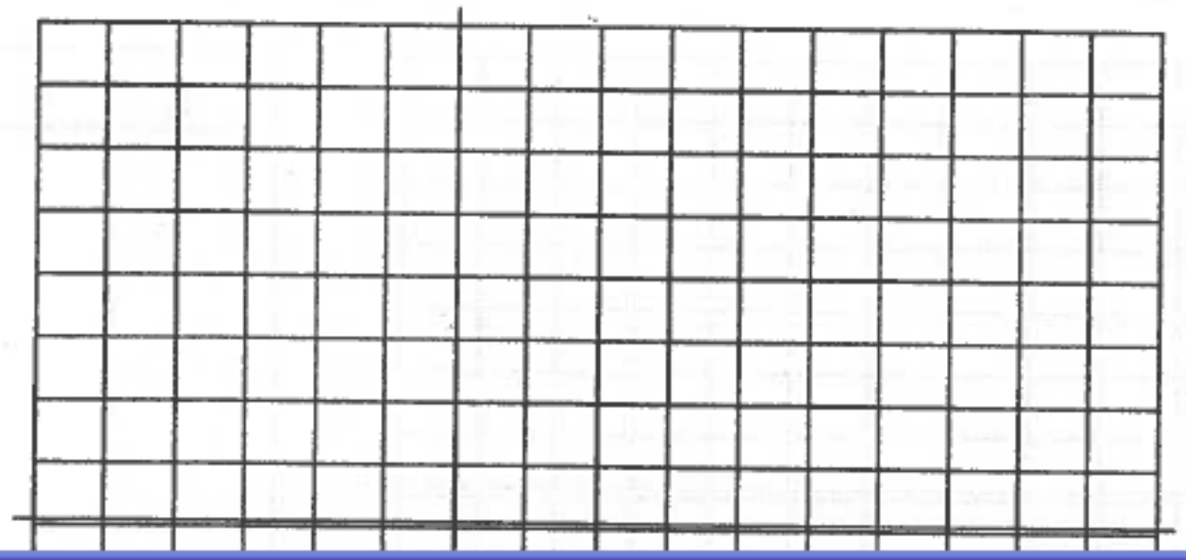
The Equation is: $x = 3y + 4$

2) A) Plot & **Label** the points A(-2, 4), B(5, 4), C(3, -2), D(-4, -2) Connect the points.

B) Identify the shape: _____. Calculate the area in the space below.

C) Label the Origin on the gird.

D) What is the slope of line AB? _____. What is the slope of line BC? _____.

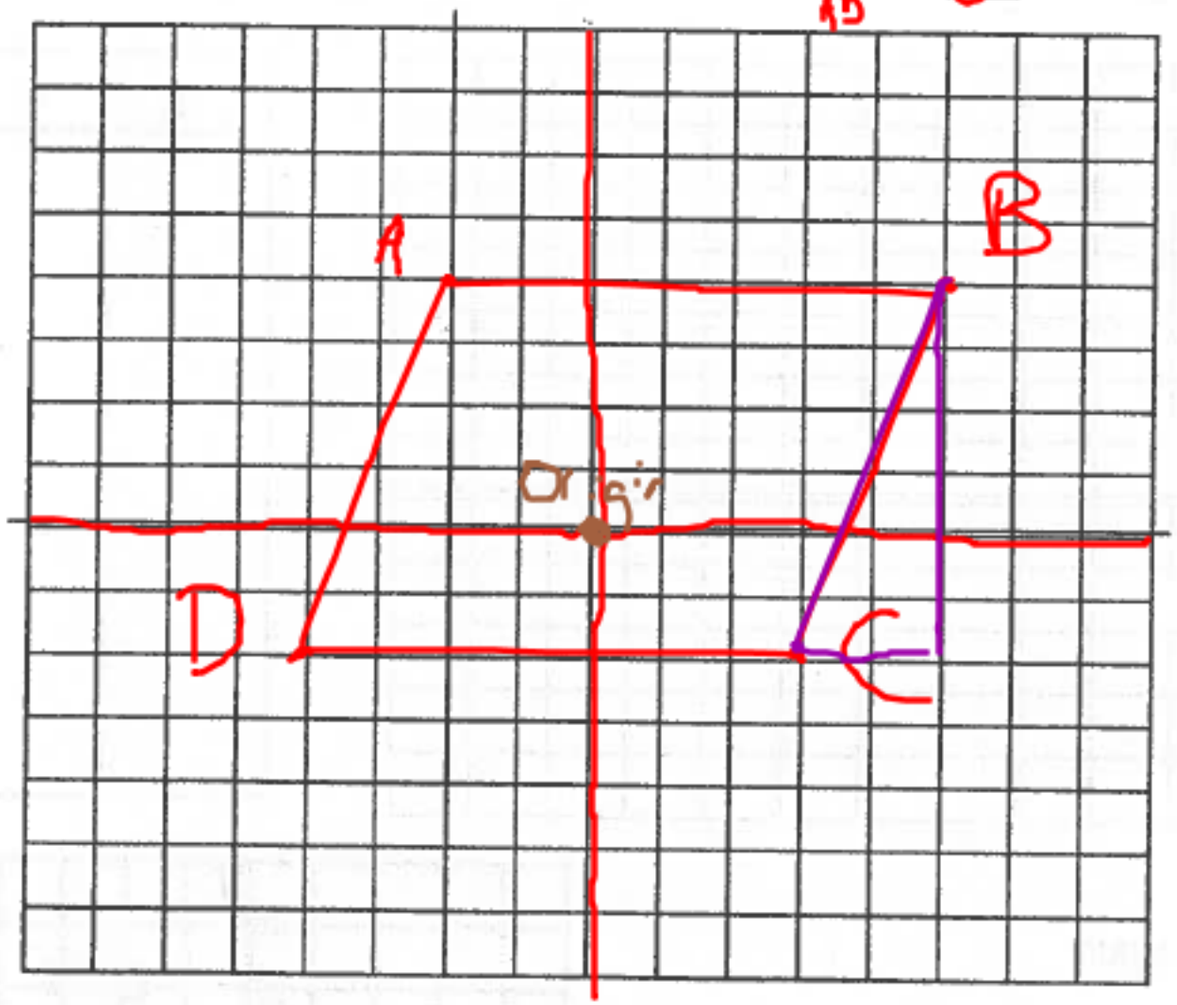


2) A) Plot & **Label** the points A(-2, 4), B(5, 4), C(3, -2), D(-4, -2) Connect the points.

B) Identify the shape: parallelogram. Calculate the area in the space below.

C) Label the Origin on the gird.

D) What is the slope of line AB? $m_{AB} = 0$. What is the slope of line BC? $m_{BC} = 3$.



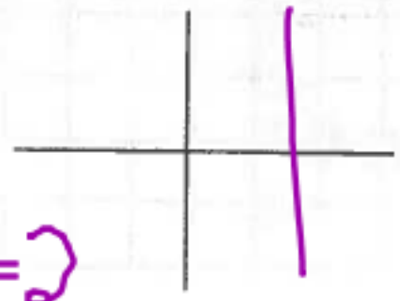
$$m_{BC} = \frac{rise}{run} = \frac{6}{2} = 3$$

3) Draw a sketch for the following lines.

a) Line with undefined slope b) Line $y = x$

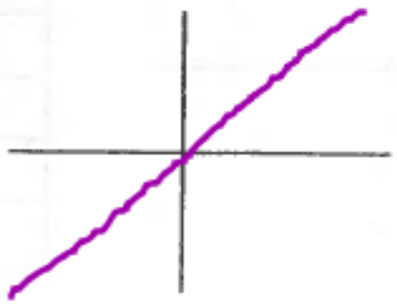
3) Draw a sketch for the following lines.

a) Line with undefined slope

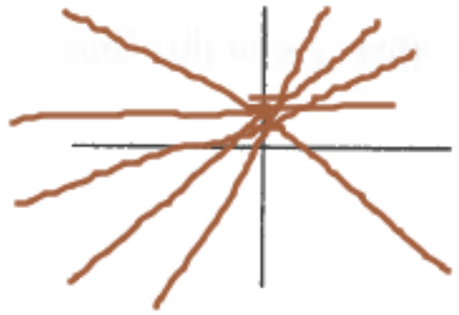


x=2

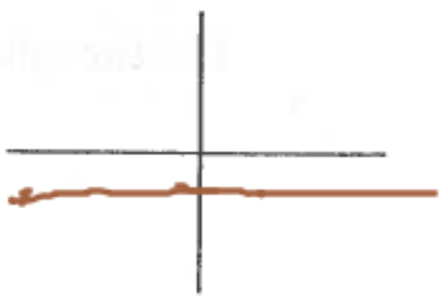
b) Line y = x



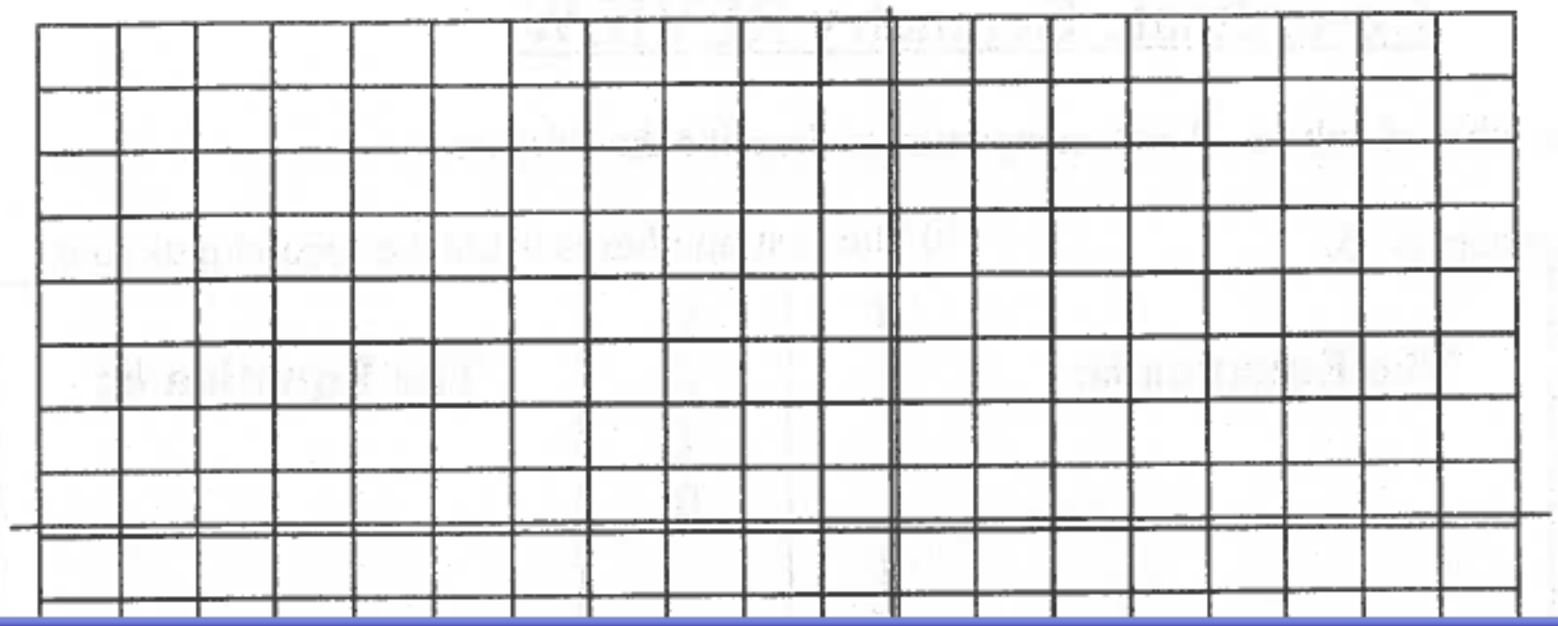
c) Line with y-intercept = 2



d) Line y = –1



4) a) Graph the two equations; write a table of values for each line: A) $y = -3x$ B) $y = x + 4$
b) Label the point of intersection.



x	y

x	y

4) a) Graph the two equations; write a table of values for each line: A) $y = -3x$ B) $y = x + 4$
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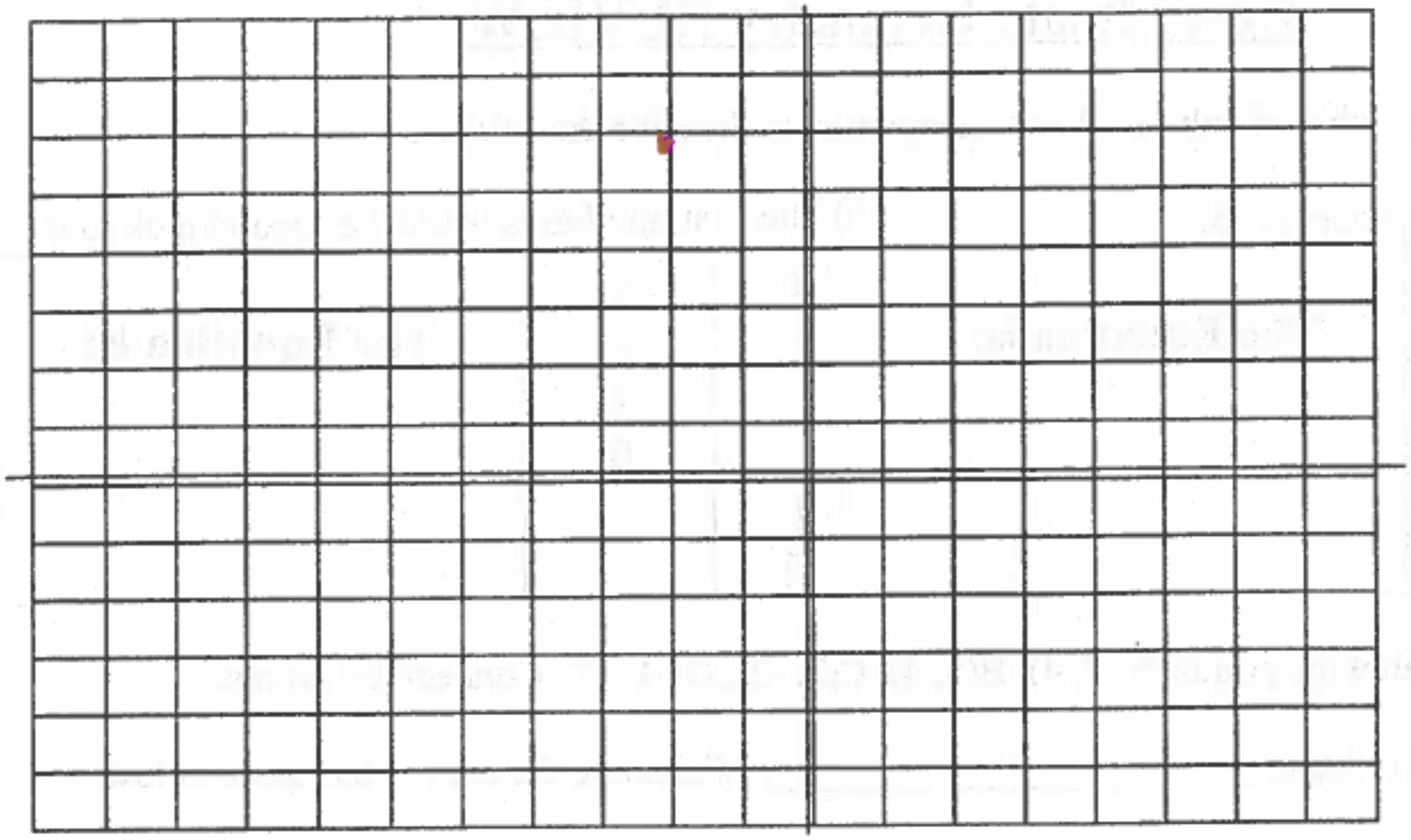

x	y
-2	6
-1	3
0	0
1	-3
2	-6

$y = -3x$

x	y
-2	2
-1	3
0	4
1	5
2	6

$y = x + 4$

5) a) Graph the equation $y = -\frac{1}{4}x + 2$, using an *appropriate* table of values.
b) Label both the x and y intercepts.

x	y

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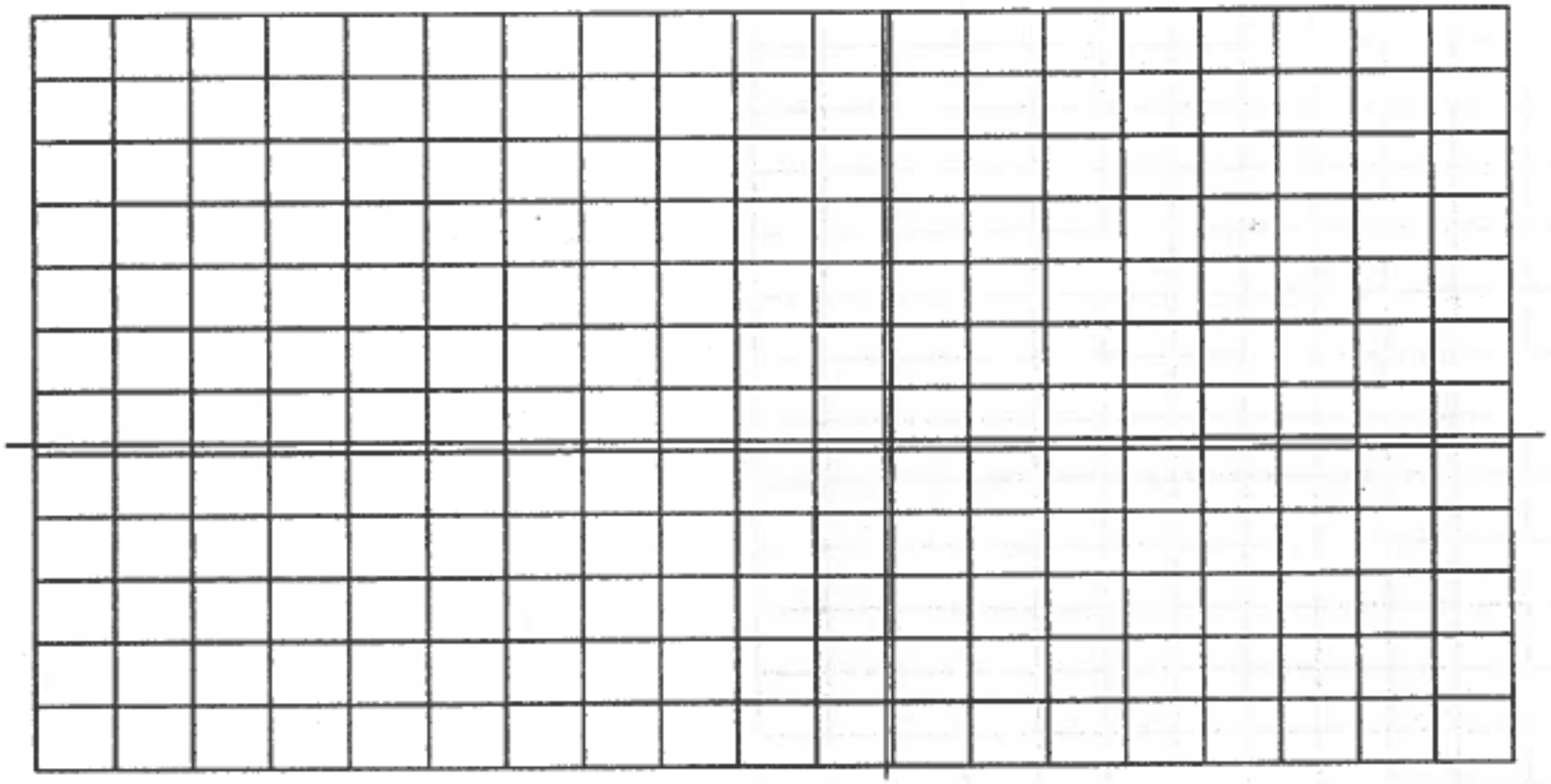
b) Label both the x and y intercepts.



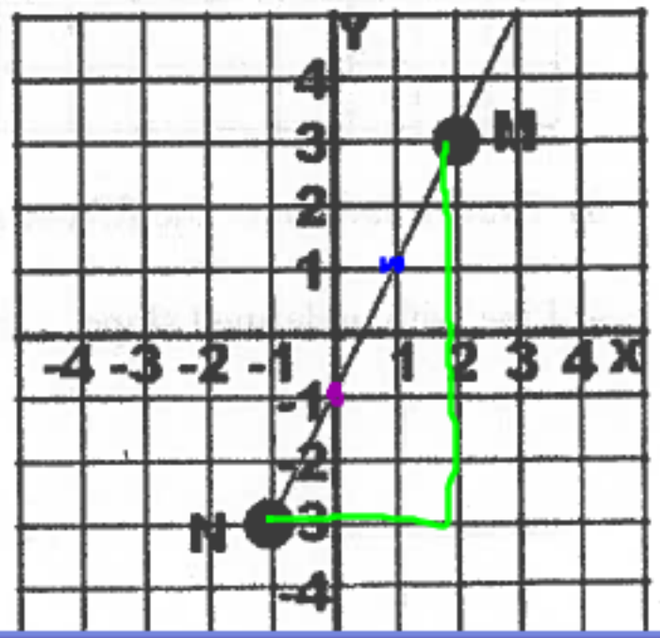
x	y
-8	4
-4	3
0	2
4	1
8	0

6) What is the slope of line segment MN? $\frac{6}{3} = 2$

What is the x-intercept? 0.5

What is the y-intercept? -1

List two other points that are on this line. (1,1) (0,-1)



Homework

- Back of blue sheet
- Pink review package
  - p290 1-18 (odd only)
  - p444 1, 3, 5, 7

TEST ON WED