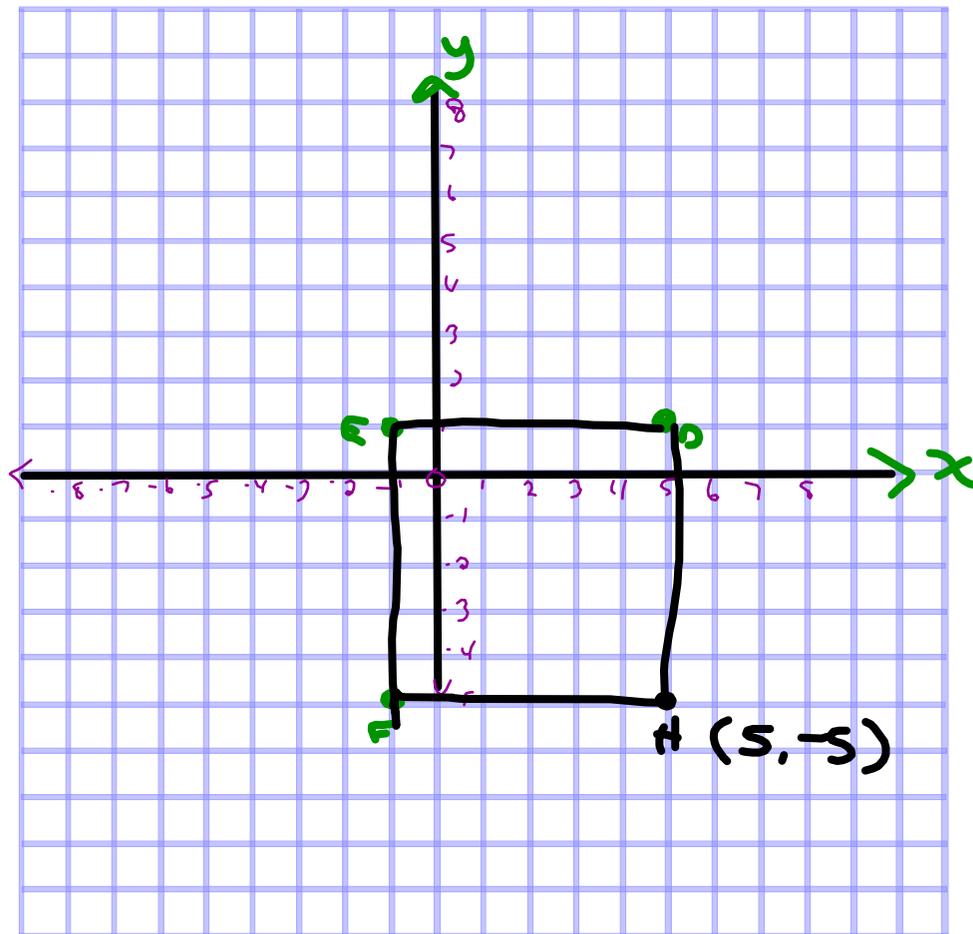


# Warm Up Grade 7

Test tomorrow

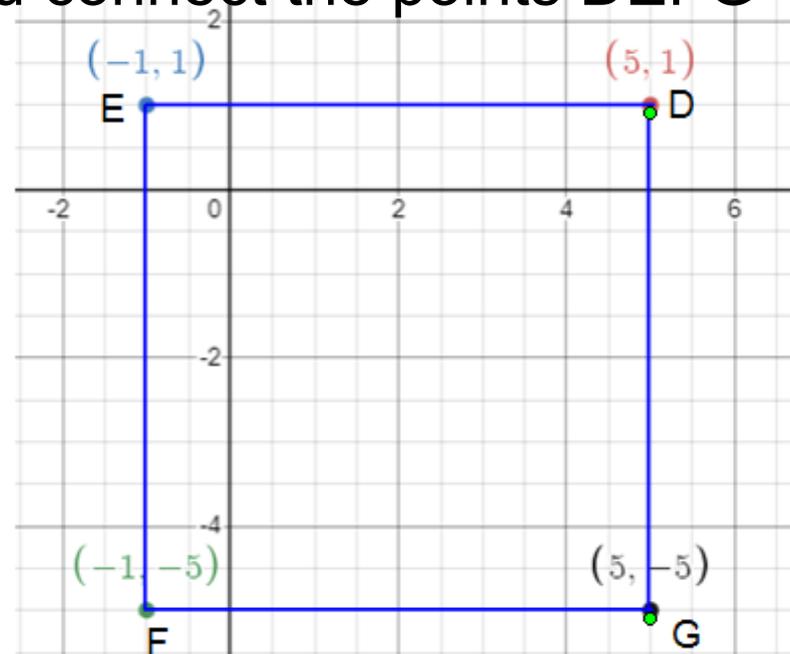
1) Plot the point  $D(5, 1)$ ,  $E(-1, 1)$  and  $F(-1, -5)$ . Now place Point  $G$  on the grid so that when you connect the points  $DEFG$  it will make a square.



# Test tomorrow

1) Plot the point  $D(5, 1)$ ,  $E(-1, 1)$  and  $F(-1, -5)$ . Now place Point  $G$  on the grid so that when you connect the points  $DEFG$  it will make a square.

$G(5, -5)$



# Homework Solutions | On next pages

Create tables using substitution- Worksheet

a)  $y = x + 10$

e)  $y = \underline{x}$

b)  $y = 4x$

2

c)  $y = 3x - 1$

f)  $y = 2x + 4$

d)  $y = x - 1$

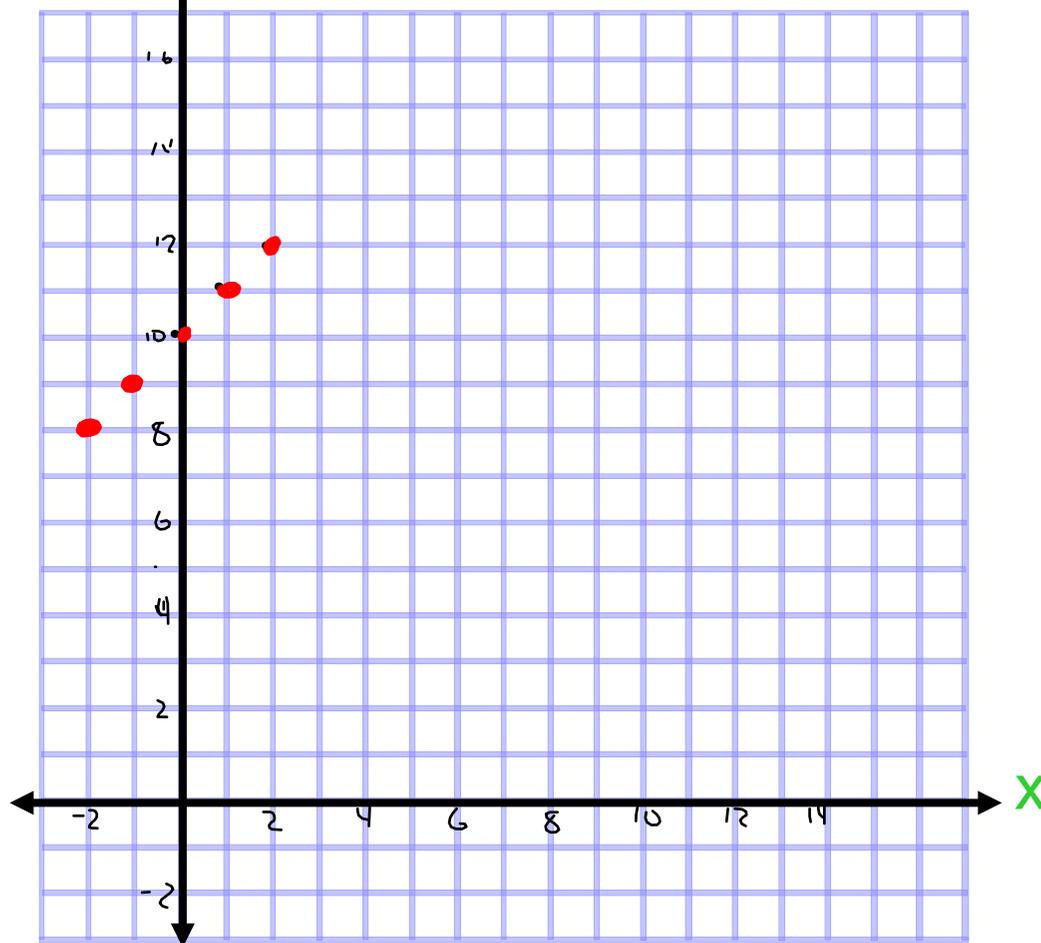
Do out each input/output and show work for each first 3 entries. Then graph on your own graph paper. Label the each axis and include a scale.

# Homework Solutions

a)  $y = x + 10$

x	y
-2	8
-1	9
0	10
1	11
2	12

$$\begin{array}{l} x = -2 \\ y = (-2) + 10 \\ \quad = 8 \end{array} \quad \left. \begin{array}{l} x = -1 \\ y = (-1) + 10 \\ \quad = 9 \end{array} \right\} \quad \begin{array}{l} x = 0 \\ y = (0) + 10 \\ \quad = 10 \end{array}$$



# Homework Solutions

a)  $y = 3x - 1$

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

*Handwritten note: A purple bracket on the right side of the table, spanning from y = -7 to y = -1, is labeled "up 3", indicating the slope of the line.*

$$x = -2$$

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

$$= -6 - 1$$

$$= -7$$

$$x = -1$$

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

$$= -3 - 1$$

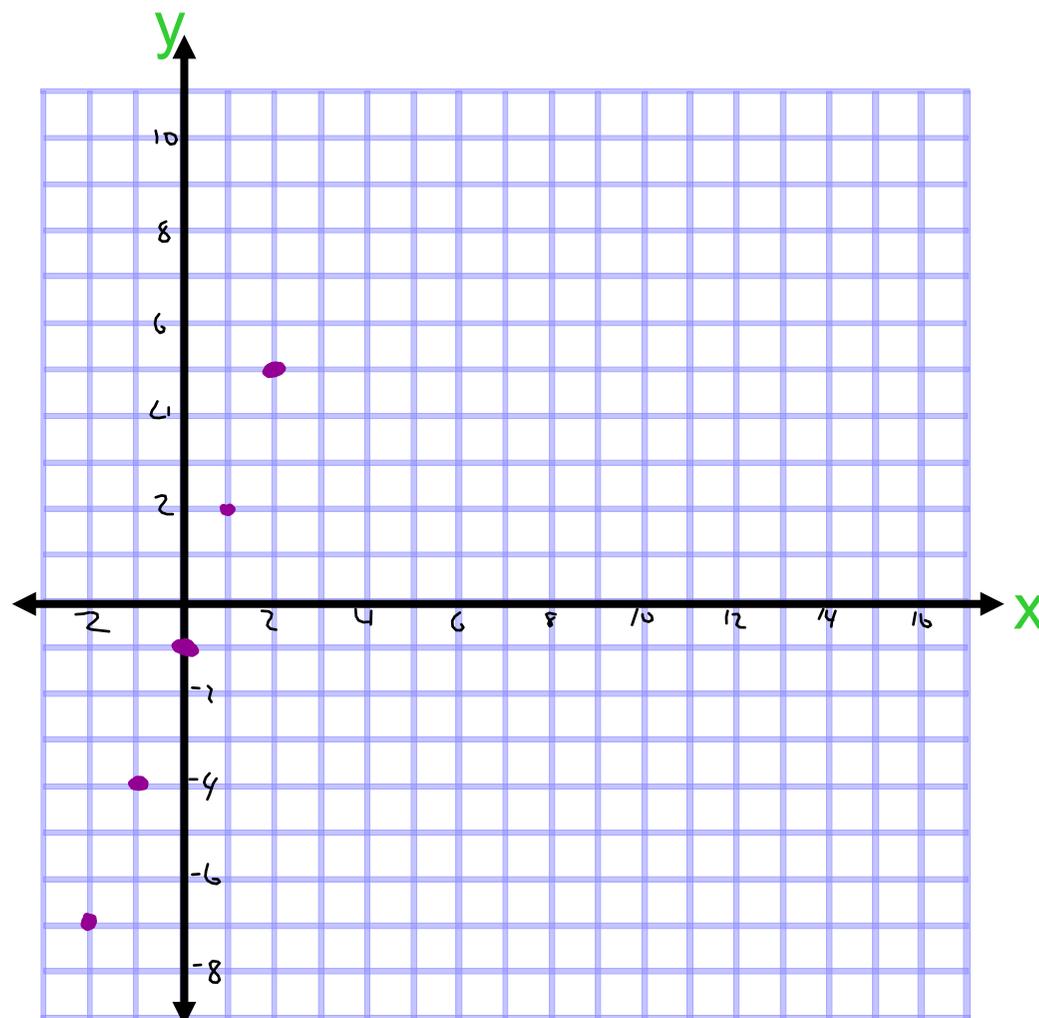
$$= -4$$

$$x = 0$$

$$y = 3(0) - 1$$

$$= 0 - 1$$

$$= -1$$



# Homework Solutions

a)  $y = 4x$

<u>x</u>	<u>y</u>
-2	-8
-1	-4
0	0
1	4
2	8

*Handwritten notes:* A vertical line separates the x and y columns. A blue bracket on the right side of the table spans from y = -8 to y = -4, with the text "up 4" next to it. A blue arrow points from the y = -4 row down to the y = 0 row.

$$x = -2$$

$$y = 4(-2)$$

$$= -8$$

$$x = -1$$

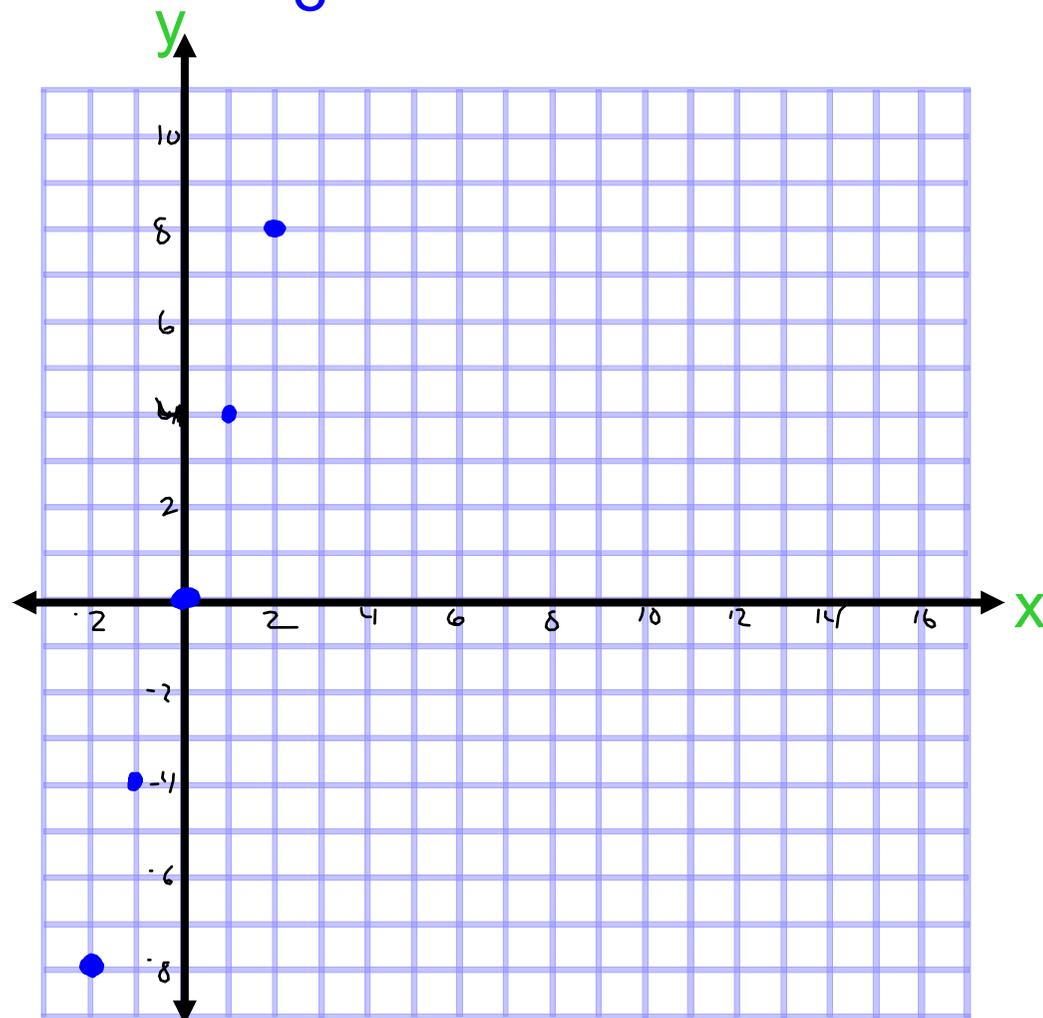
$$y = 4(-1)$$

$$= -4$$

$$x = 0$$

$$y = 4(0)$$

$$= 0$$



# Homework Solutions

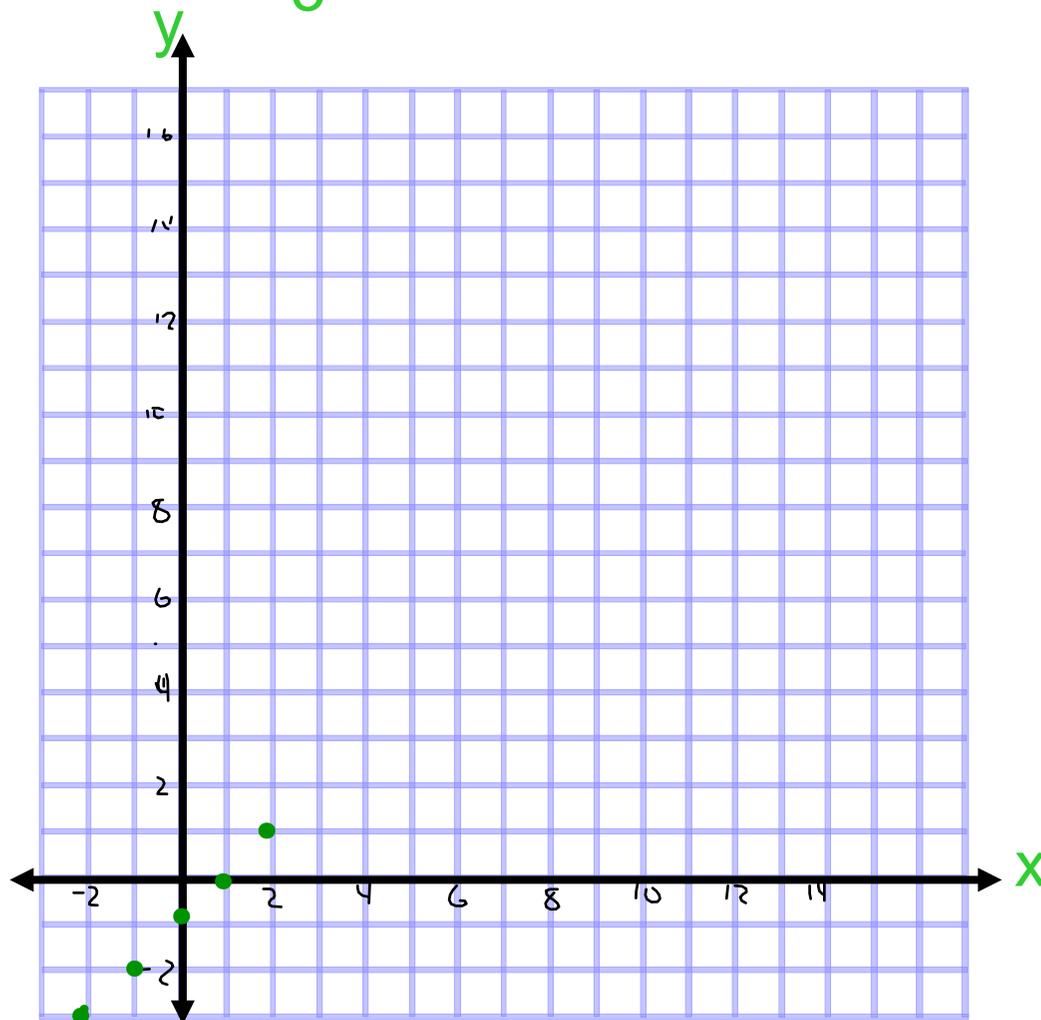
a)  $y = x - 1$

<u>x</u>	<u>y</u>
-2	-3
-1	-2
0	-1
1	0
2	1

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

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

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



# Homework Solutions

a)  $y = x/2$

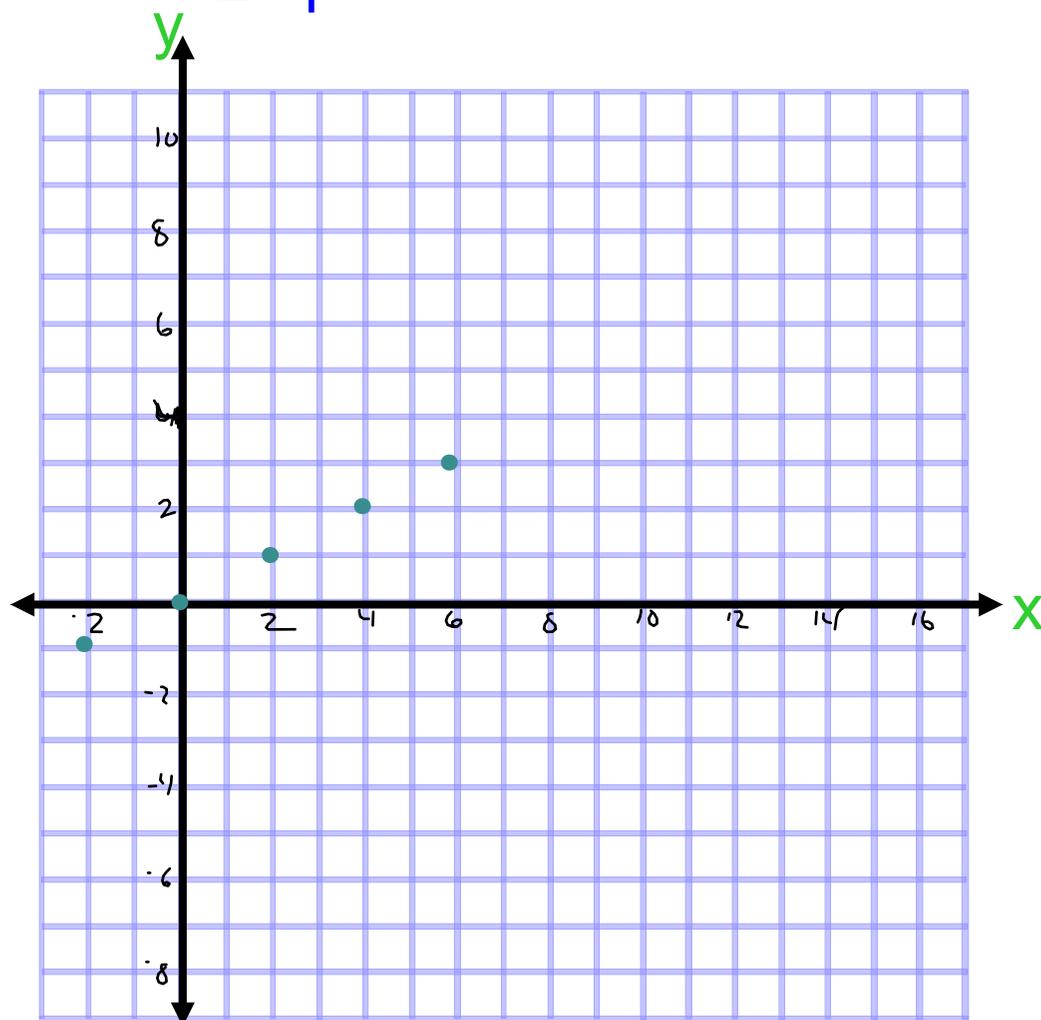
<u>x</u>	<u>y</u>
-2	-1
0	0
2	1
4	2
6	3

*up 1*

$$x = -2$$
$$y = -2 \div 2$$
$$= -1$$

$$x = 0$$
$$y = 0 \div 2$$
$$= 0$$

$$x = 2$$
$$y = 2 \div 2$$
$$= 1$$



# Homework Solutions

a)  $y = 2x + 4$

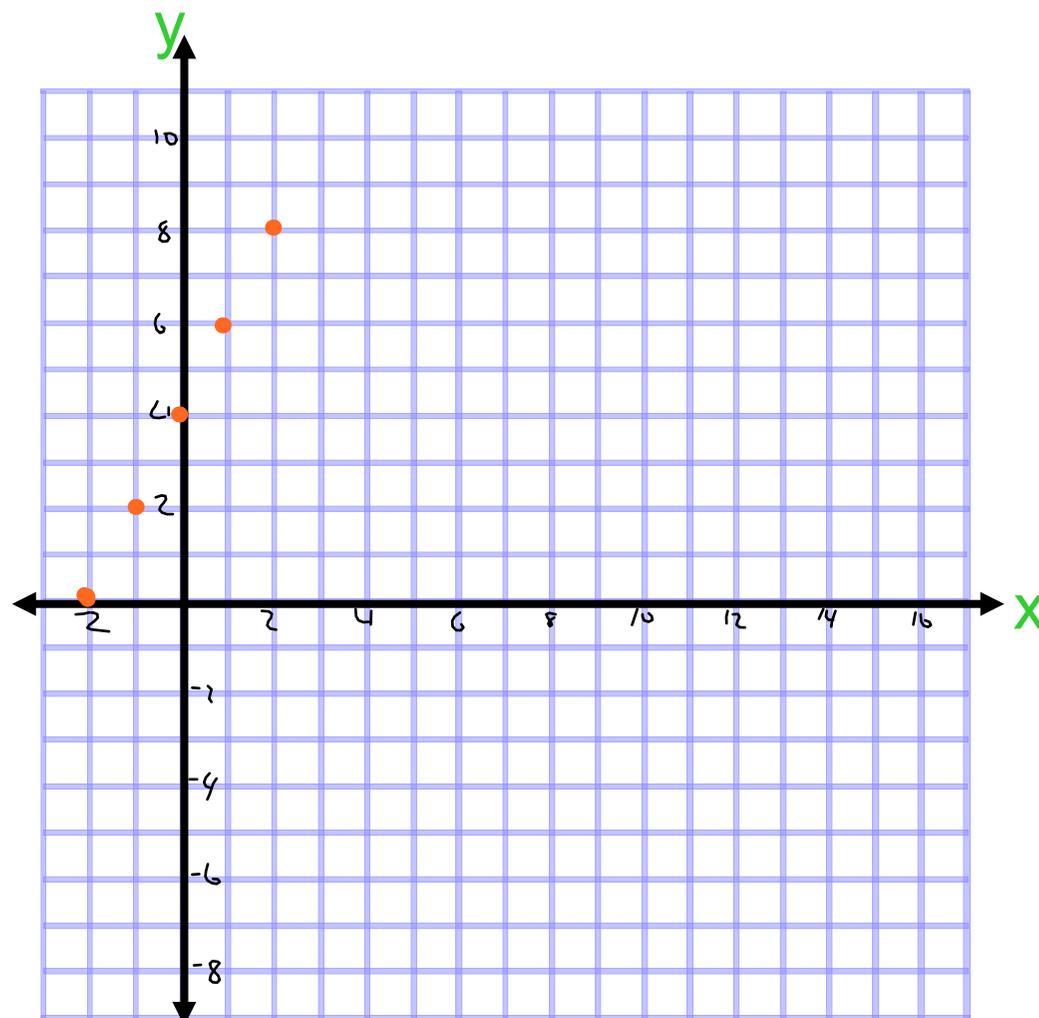
x	y
-2	0
-1	2
0	4
1	6
2	8

Handwritten purple arrows on the right side of the table indicate a slope of 2, with the label "uP2" written next to them.

$$\begin{aligned}x &= -2 \\y &= 2(-2) + 4 \\&= -4 + 4 \\&= 0\end{aligned}$$

$$\begin{aligned}x &= -1 \\y &= 2(-1) + 4 \\&= -2 + 4 \\&= 2\end{aligned}$$

$$\begin{aligned}x &= 0 \\y &= 2(0) + 4 \\&= 0 + 4 \\&= 4\end{aligned}$$

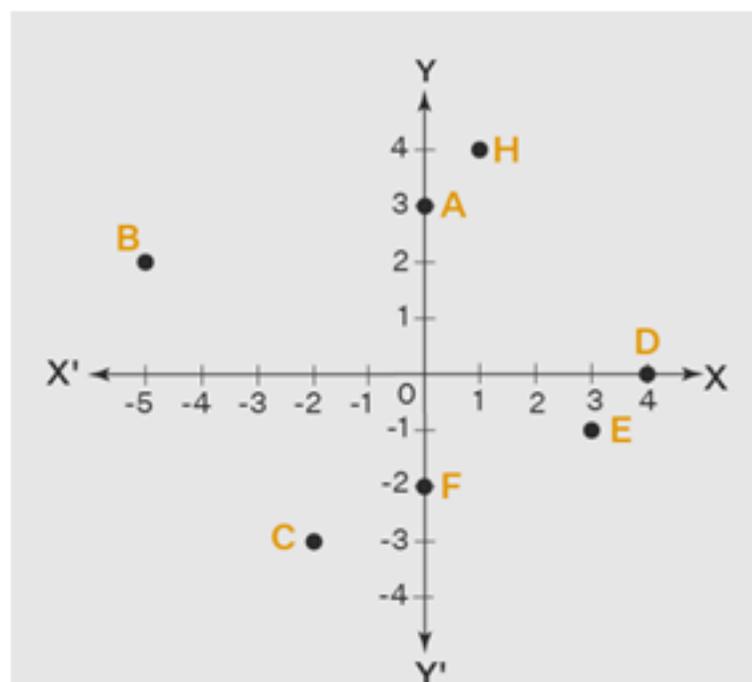


# *Class / Homework*

Complete the pre\_test Worksheet

## Coordinates Pre- Test Math 7

Name: \_\_\_\_\_



Coordinate Grid

- 1) Using the graph to the left, list the points that are in the following quadrants

Q1 →

Q2 →

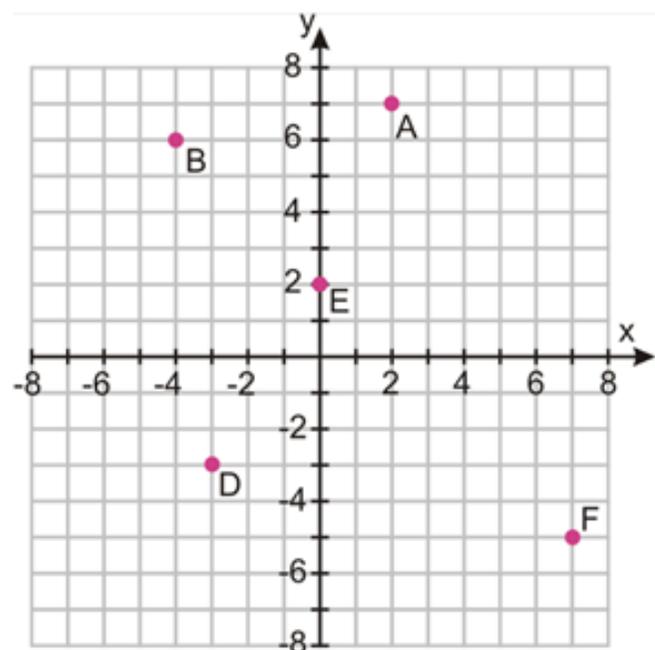
Q3 →

Q4 →

- 2) What points lie on the x-axis?

- 3) Name the point with coordinates (3, -1) on this grid above.

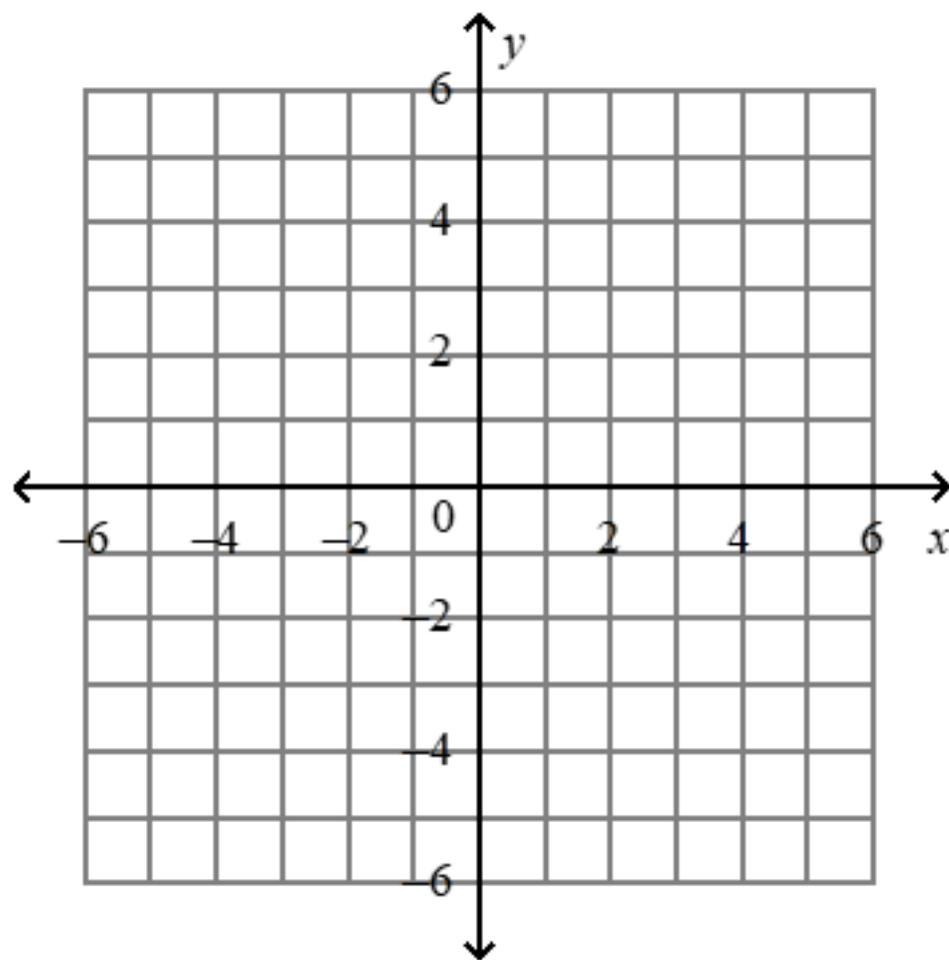
4) List the points and the coordinates for each point below



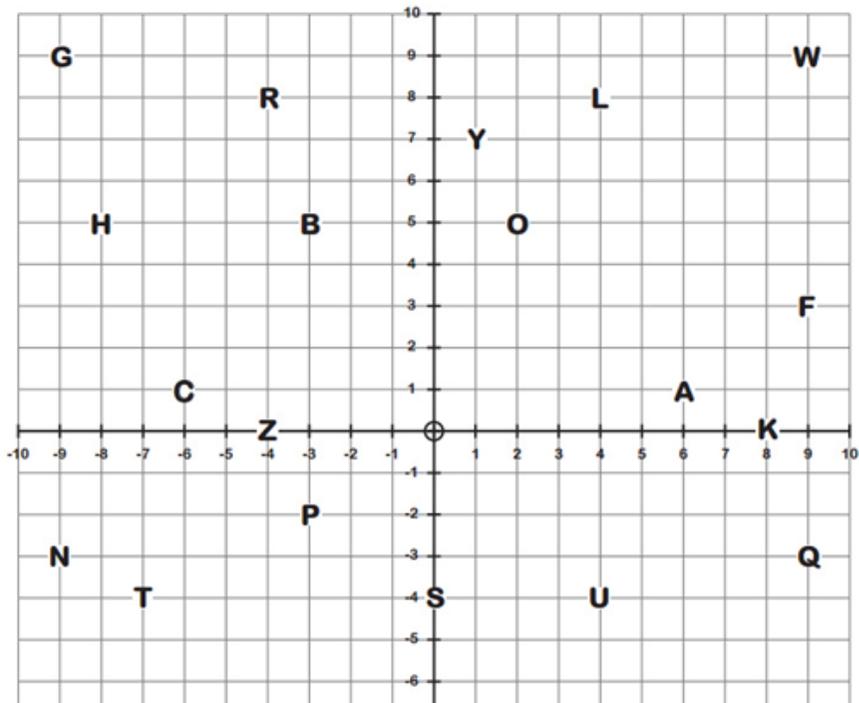
5) If you were to connect the points ABE, what shape would you make?

6) Where could you place point Z so that if you connect A B E Z, it will form a rhombus?

7. Plot these points on the same grid: A(1, 4), B(-4, 0), C(2, -4), D(0, 6), E(-5, 0)



Make sure to put the dot  
and then the letter over the  
dot for each.



8) Using the coordinates in the above graph, find which point have the following (Put the letter or letters in the blank.)

a) y-coordinate is 0? \_\_\_\_\_

b) Same y-coordinate? \_\_\_\_\_

c) Equal x- and y-coordinates? \_\_\_\_\_

d) x-coordinate -3? \_\_\_\_\_

9)a) Create a table of values using substitution for  $y = x - 4$  (Hint: Input /Output)

<u>X</u>	<u>Y</u>

Show work for the first 3 entries

b) Graph the  $y = x - 4$  (Label all axis, include scales)