

M8 6.7 Graphing Linear Relations

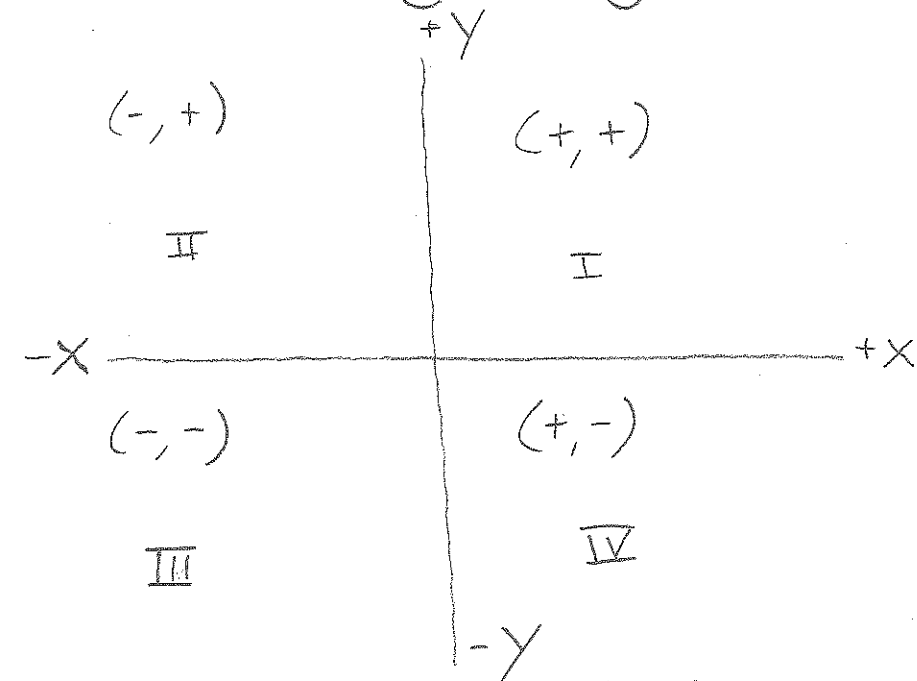
Name _____
 BIK _____

Review

Relation: two associated sets of data

Linear Relation: both data sets have constant change
 : makes a straight line graph

X input domain independent	Y output range dependant f(x)
-2	
-1	
0	
1	
2	



Cartesian Coordinates
 Coordinates/Ordered Pairs (x, y)

↳ location of a point on a graph

New

Graph the Linear Relation: $b = 24 - g$

1) Create a Table of Values

use $x = -2, -1, 0, 1, 2$ unless told otherwise

* To calculate 'g',
 replace 'b' in the
 equation with your
 given (-2, -1, 0, 1, 2) values

$$\begin{array}{r}
 b = 24 - g \quad b = 2 \\
 2 = 24 - g \quad g = ? \\
 \underline{-24 \quad -24} \\
 -22 = -g \\
 \underline{-1 \quad -1} \\
 \boxed{22 = g}
 \end{array}$$

Fill in Table

b	g
-2	26
-1	25
0	24
1	23
2	22

$$b = 24 - (g)$$

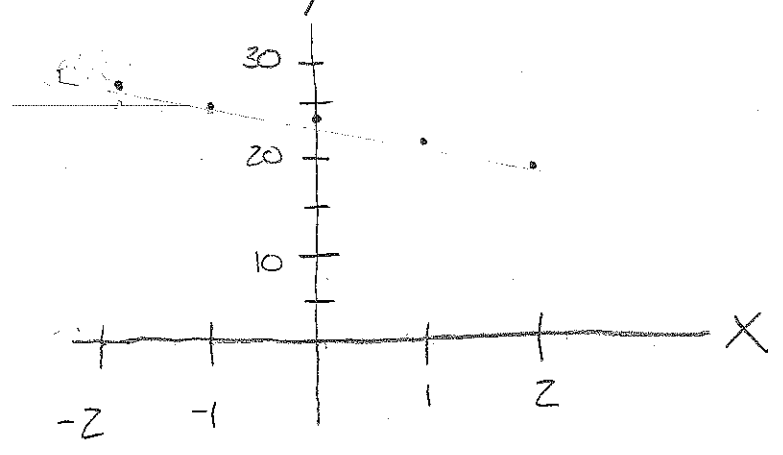
HW

A
5,6

B
8,9,12

C
10,13

b) Plot (graph) each point (x, y)

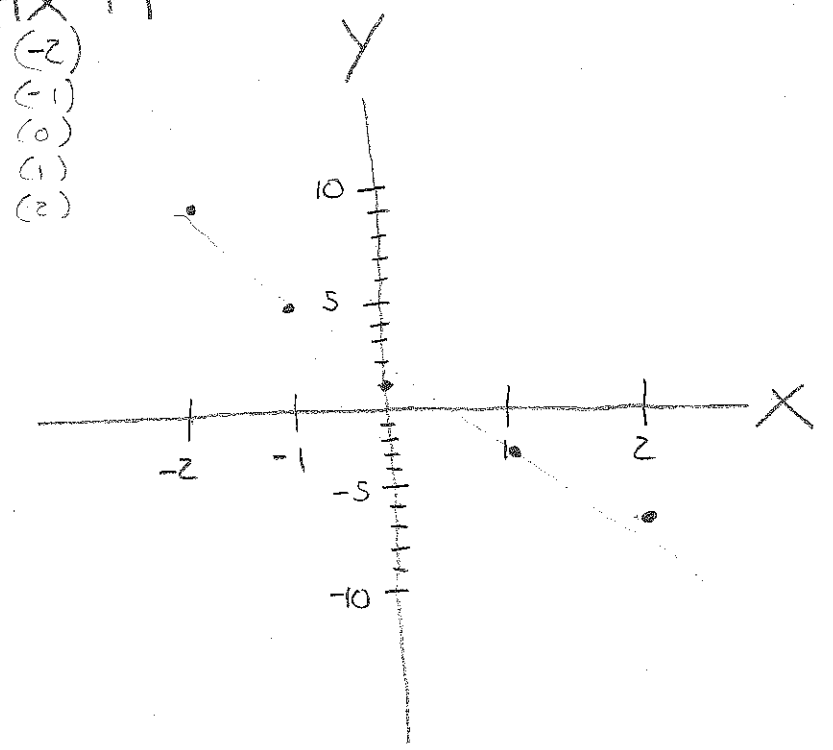


- (-2, 26)
- (-1, 25)
- (0, 24)
- (1, 23)
- (2, 22)

Ex 2. Graph $y = -4x + 1$

TOV

X	Y
-2	9
-1	5
0	1
1	-3
2	-7



- 2) graph
- (-2, 9) ✓
 - (-1, 5) ✓
 - (0, 1) ✓
 - (1, -3) ✓
 - (2, -7)