

# M8 6.7 Graphing Linear Relations

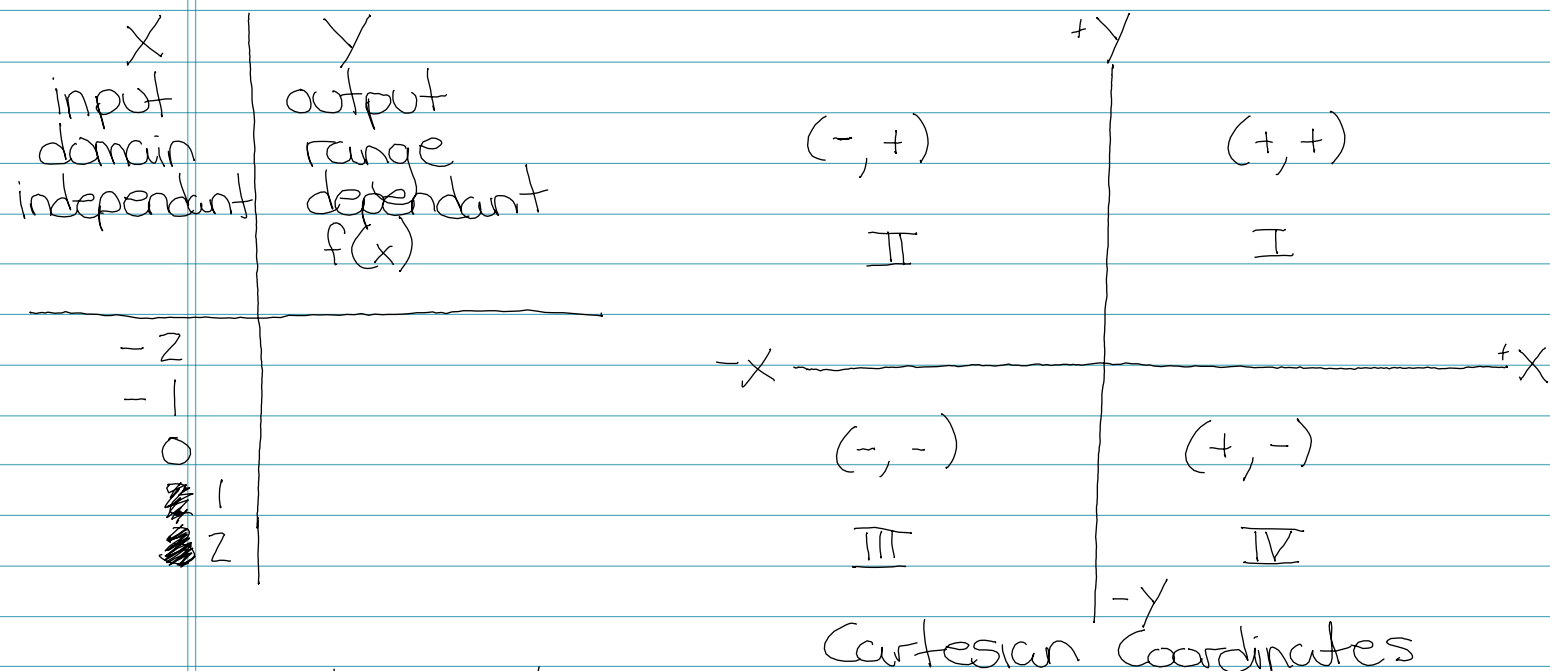
Name \_\_\_\_\_

Review

Relation: 2 associated data sets

Blk \_\_\_\_\_

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



Cartesian Coordinates  
Coordinates/Ordered Pairs (x, y)

↳ location of a point on a graph

New  
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Ex 1 Graph the Linear Relation  $y = 24 - x$  ( $b = 24 - g$ )

1) Create a Table of Values  
Use  $x = -2, -1, 0, 1, 2$  unless told otherwise

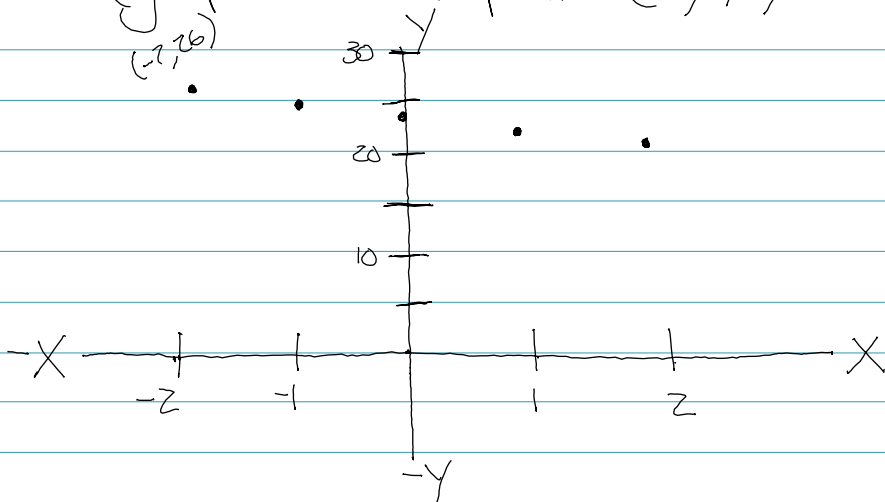
	x	y
+	-2	$y = 24 - (-2)$ 26
+	-1	$y = 24 - (-1)$ 25
+	0	$y = 24 - (0)$ 24
+	1	$y = 24 - (1)$ 23
	2	$y = 24 - (2)$ 22

\* To calculate 'y' replace 'x' in your equation with your given  $(-2, -1, 0, 1, 2)$  values

TOV

X	Y	$Y = 24 - X$
-2	26	$(-2, 26)$
-1	25	$(-1, 25)$
0	24	$(0, 24)$
1	23	$(1, 23)$
2	22	$(2, 22)$

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

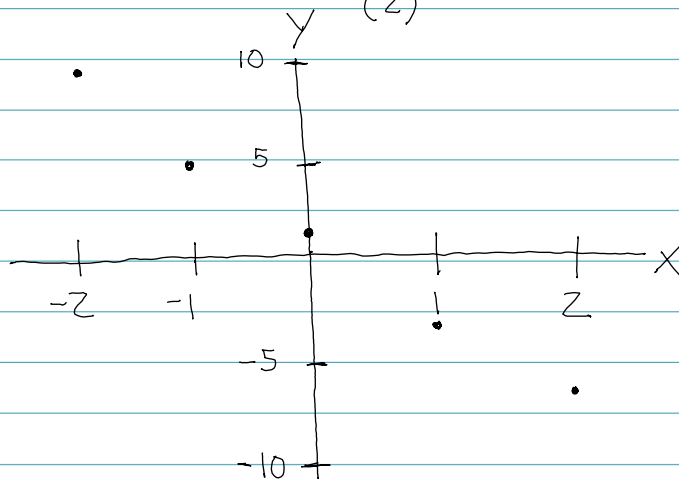


Ex 2. Graph

$$y = -4x + 1$$

1) TOV

X	Y	$y = -4x + 1$
-2	9	$(-2)$
-1	5	$(-1)$
0	1	$(0)$
1	-3	$(1)$
2	-7	$(2)$



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Hw

A

5, 6

B

8, 9, 12

C

10, 13