

Warm-up

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

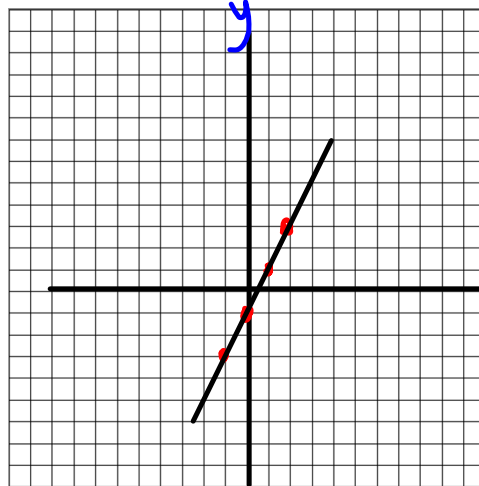
$> +2$
 $> +2$
 $> +2$

$y = 2x - 1$

March 30, 2017

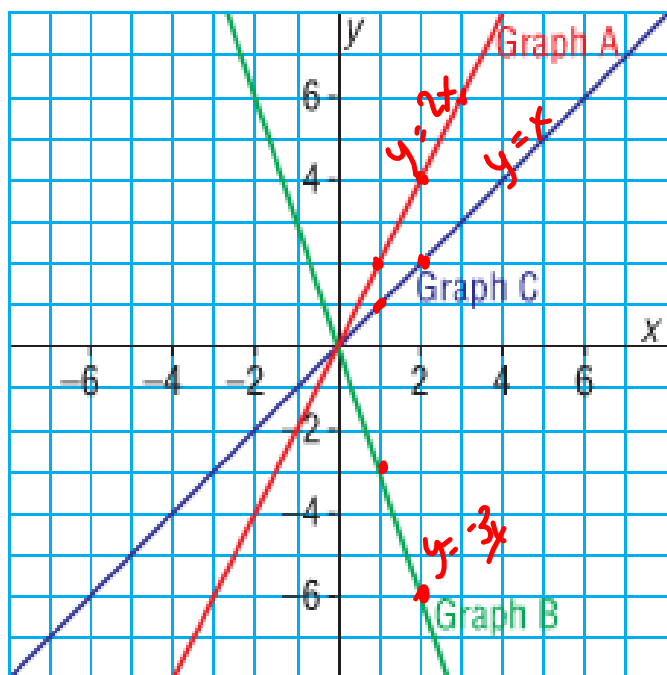
1. Write the equation for the table of values.
2. Draw a graph
3. Describe the relation
4. What is the value of y if x is -42?

As x increases by 1, y increases by 2.



$x = -42$
 $y = 2x - 1$
 $y = 2(-42) - 1$
 $y = -84 - 1$
 $y = -85$

Match each graph on the grid with its equation below.



- $y = x$
- $y = 2x$
- $y = -3x$

Graph C
 $y = x$

x	y
1	1
2	2
3	3

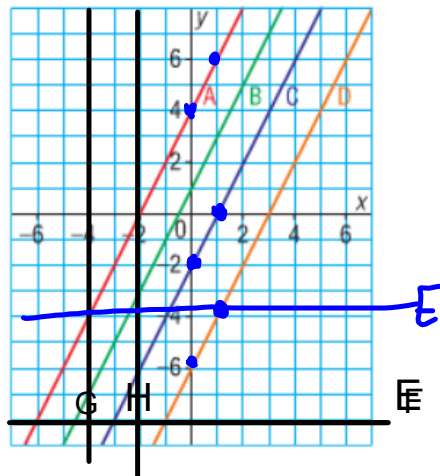
Graph A
 $y = 2x$

x	y
1	2
2	4
3	6

Graph B
 $y = -3x$

x	y
1	-3
2	-6
3	-9

Match the letter for the equation that matches the line.



$x = -2$

1. $y = 2x - 2$ Graph C

x	y
0	-2
1	0
2	2

$x = 2$

$y = 2x - 2$
 $y = 2(2) - 2$
 $y = 4 - 2 = 2$

$x = 0$

$y = 2x - 2$
 $y = 2(0) - 2$
 $y = -2$

$x = 1$

$y = 2x - 2$
 $y = 2(1) - 2$
 $y = 0$

2. $y = 2x + 4$ Graph A

x	y
0	4
1	6
2	8

$x = 1$

$y = 2x + 4$
 $y = 2(1) + 4$
 $y = 2 + 4$
 $y = 6$

$x = 0$

$y = 2x + 4$
 $y = 2(0) + 4$
 $y = 4$

$x = 2$

$y = 2x + 4$
 $y = 2(2) + 4$
 $y = 8$

3. $2x - y = 6$ Graph D

x	y
0	-6
1	-4
2	-2

$x = 0$

$2x - y = 6$
 $2(0) - y = 6$
 $-y = 6$
 $y = -6$

$x = 1$

$2(1) - y = 6$
 $2 - y = 6$
 $2 - 2 - y = 6 - 2$
 $-y = 4$
 $y = -4$

$x = 2$

$2(2) - y = 6$
 $4 - y = 6$
 $4 - 4 - y = 6 - 4$
 $-y = 2$
 $y = -2$

4. $2x - y = 1$ Graph _____

x	y
0	-1
1	1
2	3

$x = 0$

$2(0) - y = 1$
 $-y = 1$
 $y = -1$

$x = 1$

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

$x = 2$
 $2(2) - y = 1$
 $4 - y = 1$
 $4 - y = 1 - 4$
 $-y = -3$
 $y = 3$

5. $2x = -4$ Graph _____

$2x = -4$
 $x = -2$

6. $3 + y = -1$ Graph _____

$3 + y = -1$
 $y = -4$

Homework/Classwork

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3,  **Just table...no calculations needed.**
4

5,  **Use table of values/Show 3 Calculations!**
6,
8,

3.

$$y = 2x$$

x	y
0	0
1	2
2	4

$$y = 4x$$

$$y = -x$$

