

# HW: Jan 3 Answer Key

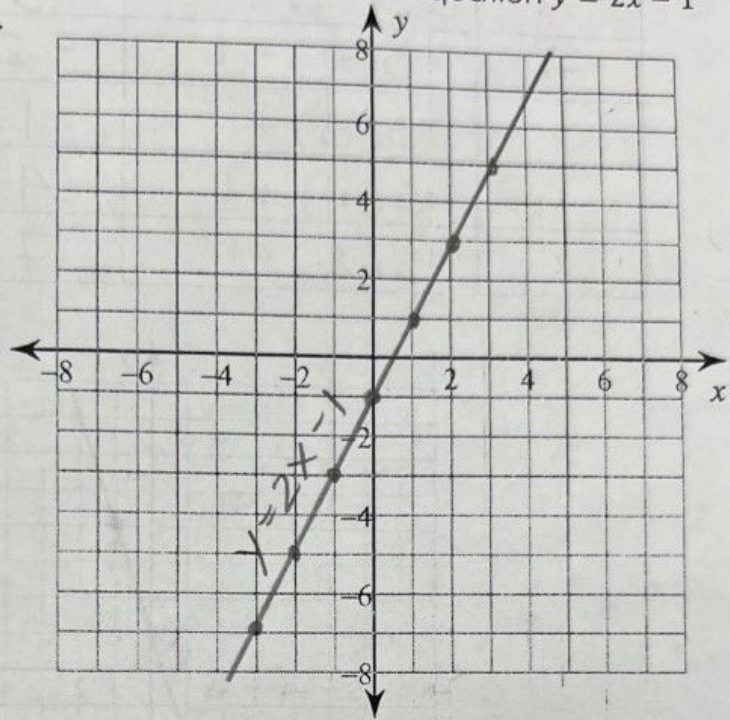
## Homework: GRAPHING LINEAR EQUATIONS

Created for you by Ms. Nhotsouanh

1. Complete the table below and graph the linear equation  $y = mx + b$   
 $y = 2x - 1$  on the coordinate plane.

Input (x)	Output (y)
-2	-5
-1	-3
0	-1
1	1

$2(-2) - 1$   
 $2(-1) - 1$   
 $2(0) - 1$   
 $2(1) - 1$

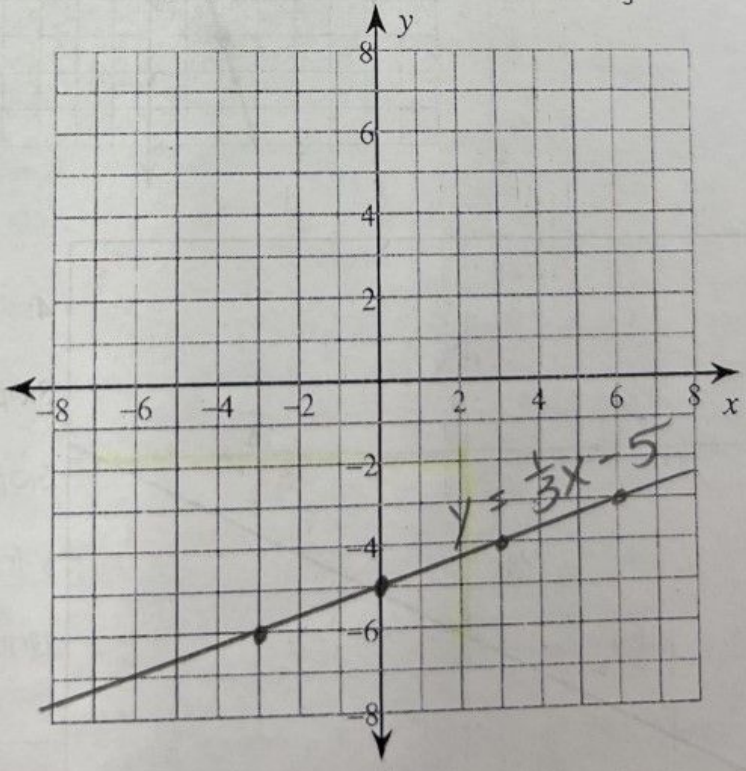


$y = mx + b$

2. Complete the table below and graph the linear equation  $y = \frac{1}{3}x - 5$  on the coordinate plane.

Input (x)	Output (y)
-3	-6
0	-5
3	-4
6	-3

$\frac{1}{3}(-3) - 5$   
 $\frac{1}{3}(0) - 5$   
 $\frac{1}{3}(3) - 5$   
 $\frac{1}{3}(6) - 5$

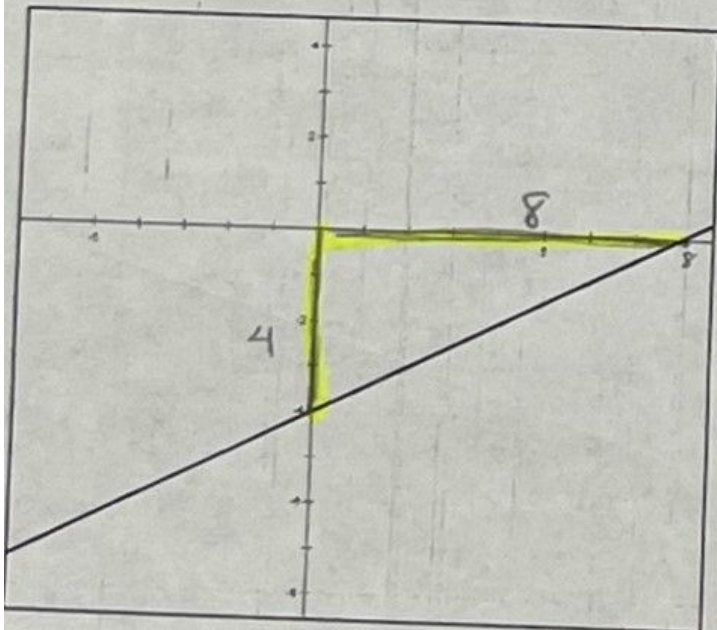
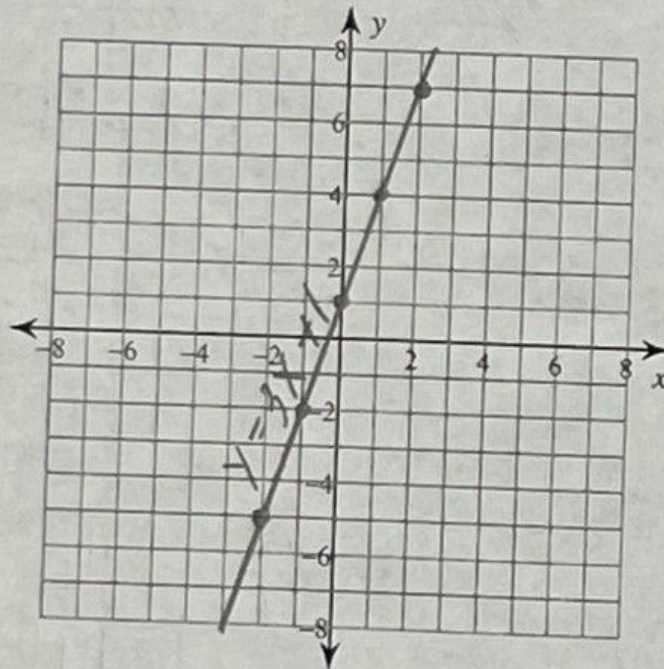


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3: Graph:

Input (x)	$y = 3x + 1$	Output (y)	(x, y)
-2	$3(-2) + 1$	-5	$(-2, -5)$
-1	$3(-1) + 1$	-2	$(-1, -2)$
0	$3(0) + 1$	1	$(0, 1)$
1	$3(1) + 1$	4	$(1, 4)$
2	$3(2) + 1$	7	$(2, 7)$



4:

Slope Type: positive

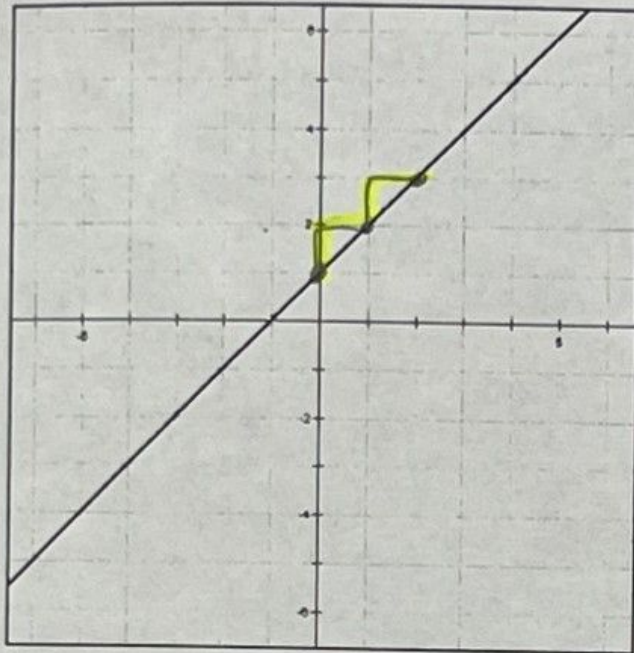
Slope (m) =  $\frac{4}{8} = \frac{1}{2}$

y-intercept (b) =  $(0, 4)$

Linear Equation:

$y = \frac{1}{2}x + 4$

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5:

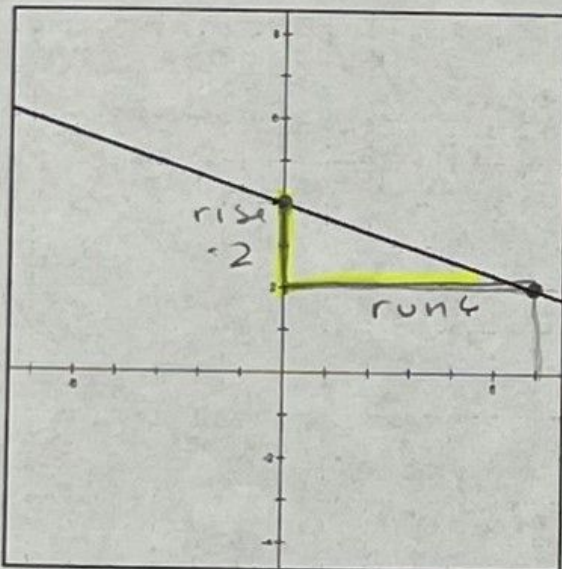
Slope Type: positive

Slope (m) = 1

y-intercept (b) = (0, 1)

Linear Equation:

$$\frac{y = 1x + 1}{y = mx + b}$$



6:

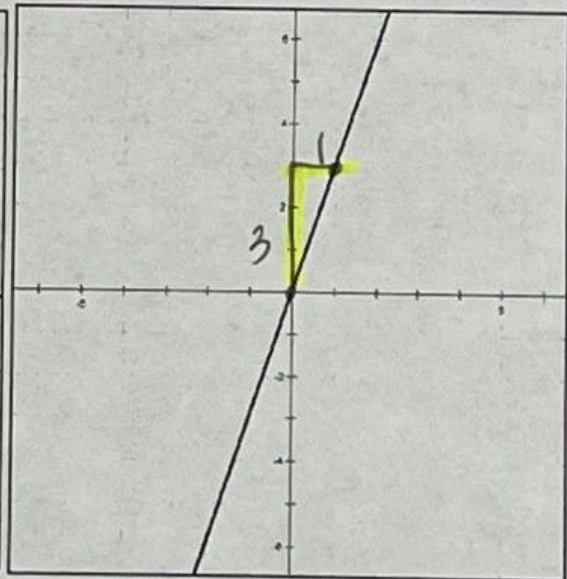
Slope Type: negative

Slope (m) =  $\frac{-2}{6} = -\frac{1}{3}$

y-intercept (b) = (0, 4)

Linear Equation:

$$y = -\frac{1}{3}x + 4$$



7:

Slope Type: positive

Slope (m) = 3

y-intercept (b) = (0, 0)

Linear Equation:

$$y = 3x$$