

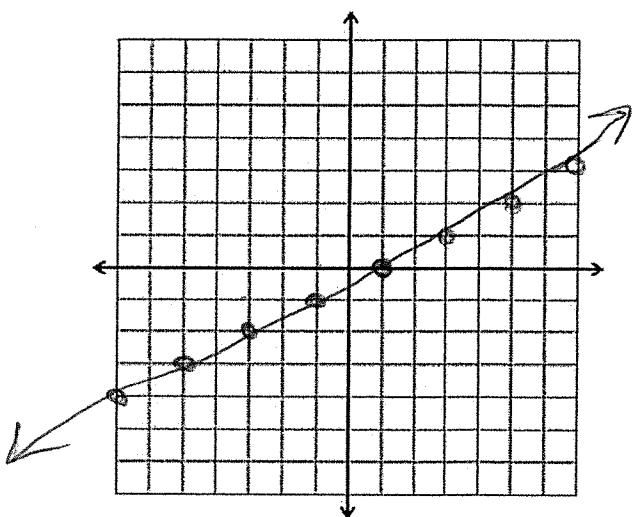
Talley

Table

x	y
2	3
1	1
0	-1
-1	-3
-2	-5

Slope (m) -2
Y-intercept (b): 1

Slope Intercept Form



Independent Variable X

Dependent Variable Y

$$y = mx + b$$

Let's use

$$y = -2x + 1$$

Does the given line pass through the origin? Explain.

No, it's shifted up 1 unit

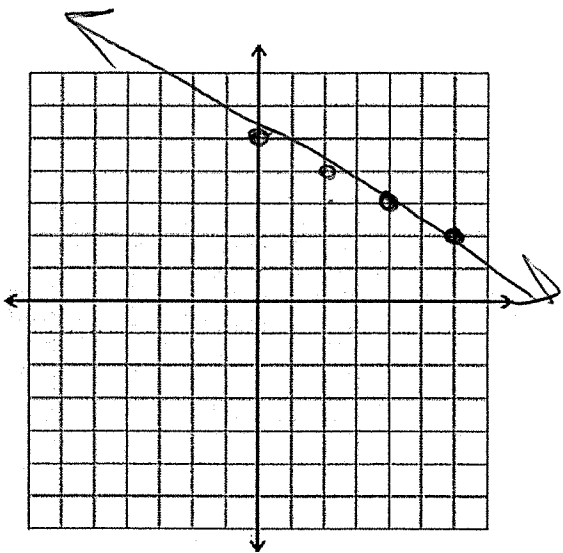
Is the given line increasing or decreasing?

decreasing

Is the ordered pair (0, -3) a solution? If not, give an ordered pair that is a solution.

No, (0, 1) is a solution

a solution



Point (x,y): (-3, 4)

Slope (m) 2

x	y
0	10
-1	8
-2	6
-3	4
-4	2

Point Slope Form

$$y - y_1 = m(x - x_1)$$

Let's use

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

Independent Variable X

Dependent Variable Y

Is the ordered pair (0, -4) a solution? If not, give an ordered pair that is a solution.

no (-5, 0)

no a

solution

Does the given line pass through the origin? Explain.

no it's

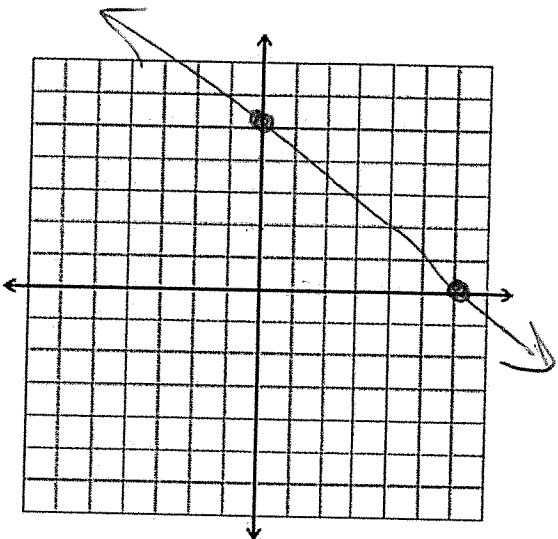
shyld

up

10 units

Convert to slope intercept form.

$$y = 2x + 10$$



x-intercept: -10

y-intercept: 6

Table

x	y
-5	3
-10	0
0	6
5	9
10	12

Standard Form

$$Ax + By = C$$

Let's use

$$3x - 5y = -30$$

Is the ordered pair (0, -2) a solution? If not, give an ordered pair that is a solution.

no (0,6) is a

solution

Does the given line pass through the origin? Explain.

no the line passes through 6.

Convert the equation to slope intercept form

$$y = \frac{3}{5}x + 6$$

