

$x\text{-int } y=0$
 $y\text{-int } x=0$

$m = \frac{2}{1}$
 $m = 2$
 $b = -1$

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

7 13

$y = m x + b$

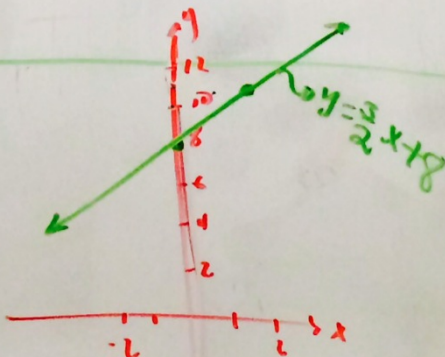
$y = 2x + (-1)$

$y = 2x - 1$

$3x - 2y = -16$
 $-3x \quad -3x$

$\frac{-2y}{-2} = \frac{-3x - 16}{-2}$

$y = \frac{3}{2}x + 8$



$P(x_1, y_1) \quad m = 4$

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

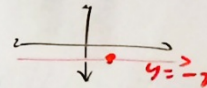
$y - 3 = -4(x - (-1))$

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

$y - 3 = -4x - 4$
 $+3 \quad +3$

$y = -4x - 1$

$\frac{-2x+5}{2} - \frac{3x+2}{5} \leq 2$



If a point & a slope is given $P(x_1, y_1)$ & m .

point-slope:
 point: (x_1, y_1)
 slope: $2 - m$

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

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

$y - 1 = 2x - 2$
 $+1 \quad +1$

$y = 2x - 1$

1. write point-slope form $y - y_1 = m(x - x_1)$
2. label the points & slope
3. Substitute
4. Simplify

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