

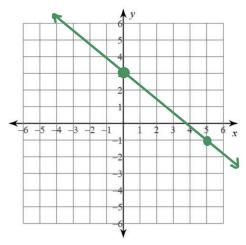
Slope Intercept and Point-Slope Form: Worksheet 1

MATH <u>x</u> ALL

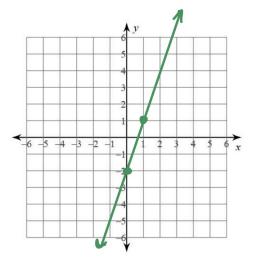
Slope Intercept Form: y = mx + bPoint-Slope Form: y - y = m(x - x)

Graph:

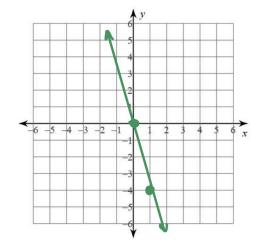
$$y = \frac{-4}{5}x + 3$$



$$y = 3x - 2$$



$$y = -4x$$



What is the point-slope form of the line...

$$y+2=-3(x-7)$$

Through (0, 5), slope 1:

$$y-5=x$$

 $y=\frac{2}{3}(x+6)$

Through (-6, 0), slope
$$\frac{2}{3}$$

$$y = \frac{2}{3}(x+6)$$

What is a point and slope of the line with equations:

$$y = \frac{7}{2}(x+6)$$

 $y = \frac{7}{2}(x+6)$ Point: (-6,0)

$$y+4=-9(x-2)$$

y+4=-9(x-2) Point: (2,-4)

$$y - 5 = x + 7$$

y-5=x+7 Point: (-7,5)

What is the slope intercept form of a line with...

Slope: -6 through (-1, 3):

$$\frac{y-3=-6(x+1)}{y-3=-6x-6}$$

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

Slope:
$$\frac{2}{3}$$
 through (3, -6):

$$\frac{y+6=\frac{2}{3}(x-3)}{\frac{y+6=\frac{2}{3}x-2}{-6}}$$

$$u = \frac{2}{3} \times -8$$