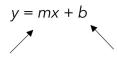
Lines: Lesson 4

Slope Intercept and Point-Slope Form: Notes

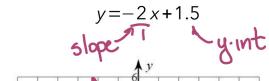
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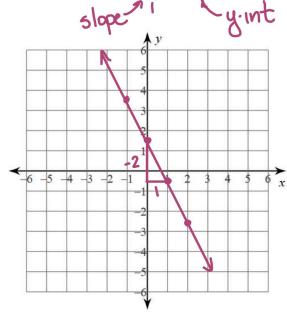
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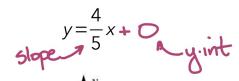
Slope Intercept Form:

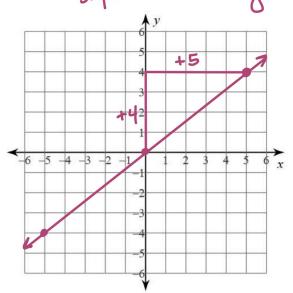


Graph the following equations:









Point-Slope Form: $y-y_1=m(x-x_1)$

What is the Point-Slope form of the line through (-2, 6) with a slope of -4?
$$y-y_1=m(x-x_1)=\underbrace{y-\zeta=-4(x-\zeta-2)}$$

simplified: y-6=-4(x+2)

What is a point and slope of the line with the equation $y+10=\frac{2}{7}(x-9)$?

Point:
$$(9,-10)$$
 Slope: $\frac{2}{7}$

What is the Slope Intercept form of a line with a slope of -1 through the point (-5, -4)?

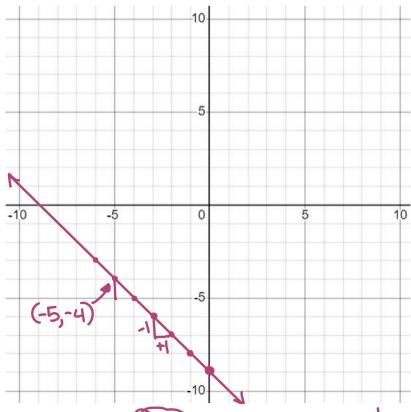
$$y-y_1=m(x-x_1)$$

$$y-(-4)=-1(x-(-5))$$
Put in values we keep the simplified of the si

Put in values we know.

Move the number away from y.

Graph y = -x - 9



Does it go through (-5, -4) with a slope of -1? ________