Algebra 1 4.3
$$y = mx + 13$$

Write equations of lines in point-slope form Write linear equations in different forms

slope-intercept form point-slope form — Quiz 4.1-4.2

Quiz 4.1-4.2

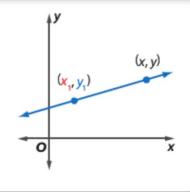
activity: cut & paste



Words

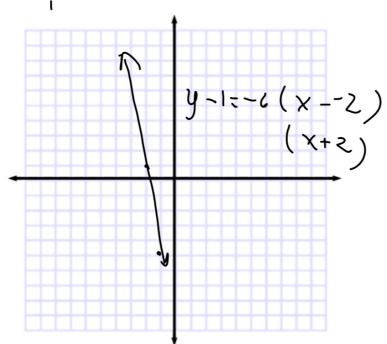
The linear equation $y - y_1 = m(x - x_1)$ is written in point-slope form, where (x_1, y_1) is a given point on a nonvertical line and m is the slope of the line.

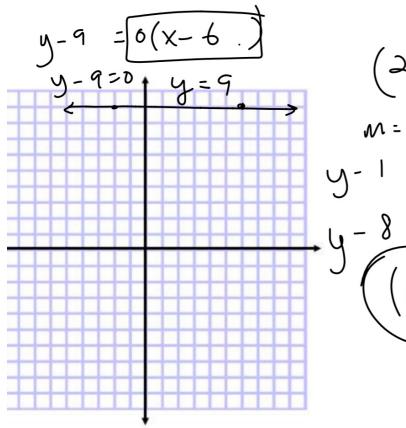
 $y - \underline{y_1} = \underline{m}(x - \underline{x_1})$ Symbols



GuidedPractice

1. Write an equation in point-slope form for the line that passes through (-2, 1) with a slope of -6. Then graph the equation.





$$(2,1)(3,8)$$

$$M=1$$

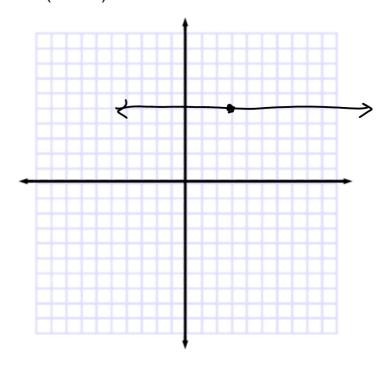
$$y-1=-7(x-2)$$

$$y-8=7(x-3)$$

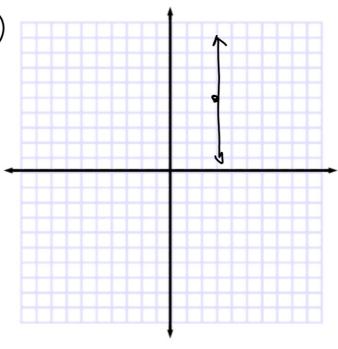
$$(6,9)(-2,9)$$

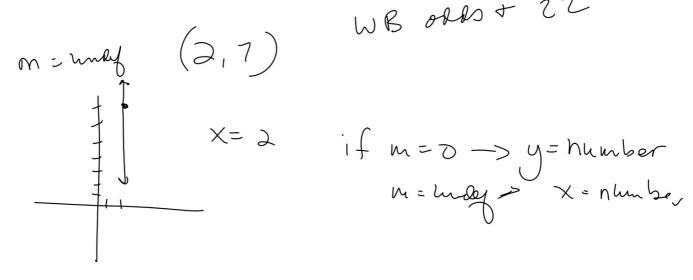
(2,1) (3,8

Slope is 0 passing through (3,5) What kind of line is it? Graph first, then write equation (easier)



Slope is undefined passing through (3,5) What kind of line is it?





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