5.3 notes.notebook

Alg 1 5.3 notes

Slope-Intercept Form

The slope-intercept form of a linear equation of a nonvertical line is y = mx + b.

slope y-intercept

Think about it...

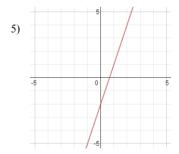
Why would slope-intercept form not work for vertical lines?

Example:
$$y = -3x + 17$$

slope is -3 y-intercept is 17

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It is possible to find equations of a line by simply looking at the graph and finding the key info. Find the equation in slope-intercept form of the graphed line.



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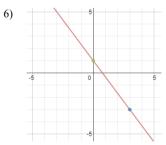
- 1) Find the slope and the y-intercept for the graph y = 2x 5.
- 2) Write the equation for the line that has a slope of -1/2 and y-intercept at 4.

On your own...

- 3) Find the slope and the y-intercept for the graph y = 5x + 2.
- 4) Write the equation for the line that has a slope of 7 and y-intercept at 0.

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Find the equation in slope-intercept form of the graphed line.

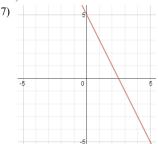


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Find the equation in slope-intercept form of the graphed line.

On your own...

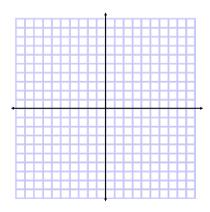


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Graph each equation.

11)
$$y = -\frac{3}{2}x + 2$$





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It is possible to find equations of a line if given two points on that line.

Find the equation in slope-intercept form for the line that passes through the given points.

On your own...

Alg 1 5.3 notes

On your own...

Graph each equation.

13)
$$y = \frac{1}{2}x - 4$$

