3.0 - Linear functions including Parallel and Perpendicular Lines.notebook January 23, 2020

*Put signed syllabus sheet in tray Warm-Up

Write each function in slope-intercept form.

1) 4x + y = 8

2) -y = 3x 3) 2y = 10 - 6x

Determine whether each line is vertical or

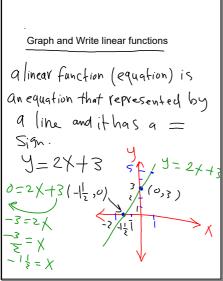
4.) x = 3/4

5.) y = 0

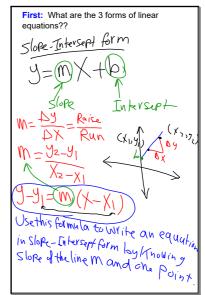
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Homework questions?

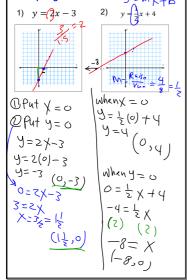
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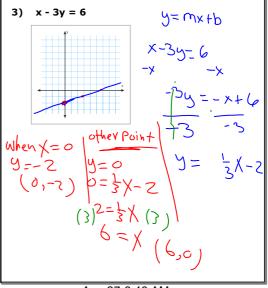
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B. Writing equations for linear functions

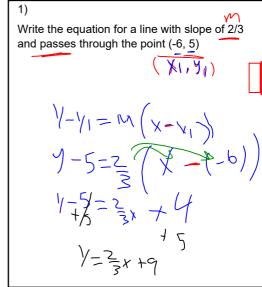
Step 1: Find slope (\(\sigma \frac{\fin}}}{\fint}}}}}}}}}{\fracc}\frac{\frac{\frac{\fir}}{\firigm}}}}}}{\frac{\frac{\firac{\frac{\frac{\frac{\frac{\fi

Step 3: Solve for y to make equation in

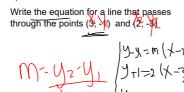
slope-intercept form

$$7 = M \times + P$$

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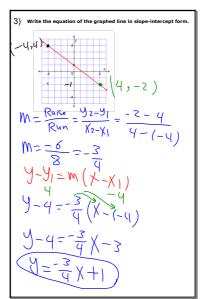


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 $\begin{array}{c|c}
M-42^{-1} & (y_{+1-2}(x-3) \\
\chi_{2}-\chi_{1} & (y_{+2}-2x-6) \\
M-3+1 & (y_{-2}-2x-7)
\end{array}$

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Vocabulary - what do you remember??

Parallel Lines:

Perpendicular Lines:

Slopes of Parallel/Perpendicular Lines

Parallel:

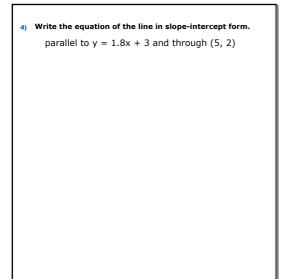
Perpendicular:

Example) If y = 2x + 5, then what would be the slope of a parallel line and perpendicular line?

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Write the equation of the line in slope-intercept form. perpendicular $y=-\frac{3}{2}x-1$ to and through (9, -2)

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Write the equation of the line in slope-intercept form. $parallel\ to\ 5x-y=3\ and\ through\ (1,4)$

7) Write the equation of the line in slope-intercept form. perpendicular to y - 3x + 2 = 0 and through (-1, 4)

** Get equation in y = mx + b form first so you can determine current slope!

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Determine if each pair of lines are parallel, perpendicular,

Determine if each pair of lines are parallel, perpendicular, or neither.

1.
$$y = 1/4x + 9$$
 2. $y = 5 - 1/8x$
 $y = 4x - 9$ $y = 8x + 2$

3. -3x + 4y = 159x - 12y = 24

or neither.

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