

Writing Equations of Lines Practice Worksheet B

Name _____

Class Period _____

Find the slope and the y-intercept, and then write the equation of the line.

Find slope. $m = \frac{y_2 - y_1}{x_2 - x_1}$	Find the y-intercept: Solve for b $y = mx + b$	Write the equation $y = mx + b$
1. (1, 5) and (2, 7) $m =$	$\frac{2}{1} = 2$	$y = mx + b$ $5 = 2(1) + b$ $b = 3$ $y = 2x + 3$
2. (0, 1) and (3, -8) $m =$	$\frac{-9}{3} = -3$	$y = mx + b$ $1 = -3(0) + b$ $b = 1$ $y = -3x + 1$
3. (2, -3) and (4, -2) $m =$	$\frac{-1}{-2} = \frac{1}{2}$	$y = mx + b$ $-2 = \frac{1}{2}(4) + b$ $-2 = 2 + b$ $b = -4$ $y = \frac{1}{2}x - 4$
4. (2, 5) and (4, 2) $m =$	$\frac{-3}{2}$	$y = mx + b$ $2 = \frac{-3}{2}(4) + b$ $2 = -6 + b$ $b = 8$ $y = mx + b$ $y = \frac{-3}{2}x + 8$
5. (-3, -5) and (-1, 3) $m =$	$\frac{8}{2} = 4$	$y = mx + b$ $3 = 4(-1) + b$ $3 = -4 + b$ $b = 7$ $y = 4x + 7$

All Things Algebra Gina Wilson Linear Equations

Paul Moritz Cohn



All Things Algebra Gina Wilson Linear Equations:

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the principles for solving equations to solve simple inequalities and word problems that involve inequalities The last major topic is graphing Students begin the section by learning to graph linear equations and continue on to the concept of slope which in informal terms is a measure of the inclination of a line More formally slope can be defined as the ratio of the change in y values to the change in x values The final lesson applies graphing to the previously studied concepts of speed time and distance through graphs of the equation $d = vt$ in the coordinate plane

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