

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) $m =$	$\frac{2}{1} = 2$ $5 = 2(1) + b$ $b = 3$	$y = mx + b$ $y = 2x + 3$
2. (0, 1) and (3, -8) $m =$	$\frac{-9}{3} = -3$ $1 = -3(0) + b$ $b = 1$	$y = mx + b$ $y = -3x + 1$
3. (2, -3) and (4, -2) $m =$	$\frac{-1}{-2} = \frac{1}{2}$ $-2 = \frac{1}{2}(4) + b$ $-2 = 2 + b$ $b = -4$	$y = mx + b$ $y = \frac{1}{2}x - 4$
4. (2, 5) and (4, 2) $m =$	$\frac{-3}{2}$ 2 = -3/2(4) + b $2 = -6 + b$ $b = 8$	$y = mx + b$ $y = -\frac{3}{2}x + 8$
5. (-3, -5) and (-1, 3) $m =$	$\frac{8}{2} = 4$ $3 = 4(-1) + b$ $3 = -4 + b$ $b = 7$	$y = mx + b$ $y = 4x + 7$

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KJ Lindholm-Leary



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