

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

P. M. Cohn



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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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Table of Contents All Things Algebra Gina Wilson Linear Equations

1. Understanding the eBook All Things Algebra Gina Wilson Linear Equations
 - The Rise of Digital Reading All Things Algebra Gina Wilson Linear Equations
 - Advantages of eBooks Over Traditional Books
2. Identifying All Things Algebra Gina Wilson Linear Equations
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an All Things Algebra Gina Wilson Linear Equations
 - User-Friendly Interface
4. Exploring eBook Recommendations from All Things Algebra Gina Wilson Linear Equations
 - Personalized Recommendations
 - All Things Algebra Gina Wilson Linear Equations User Reviews and Ratings
 - All Things Algebra Gina Wilson Linear Equations and Bestseller Lists
5. Accessing All Things Algebra Gina Wilson Linear Equations Free and Paid eBooks

- All Things Algebra Gina Wilson Linear Equations Public Domain eBooks
- All Things Algebra Gina Wilson Linear Equations eBook Subscription Services
- All Things Algebra Gina Wilson Linear Equations Budget-Friendly Options
- 6. Navigating All Things Algebra Gina Wilson Linear Equations eBook Formats
 - ePub, PDF, MOBI, and More
 - All Things Algebra Gina Wilson Linear Equations Compatibility with Devices
 - All Things Algebra Gina Wilson Linear Equations Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of All Things Algebra Gina Wilson Linear Equations
 - Highlighting and Note-Taking All Things Algebra Gina Wilson Linear Equations
 - Interactive Elements All Things Algebra Gina Wilson Linear Equations
- 8. Staying Engaged with All Things Algebra Gina Wilson Linear Equations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers All Things Algebra Gina Wilson Linear Equations
- 9. Balancing eBooks and Physical Books All Things Algebra Gina Wilson Linear Equations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection All Things Algebra Gina Wilson Linear Equations
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine All Things Algebra Gina Wilson Linear Equations
 - Setting Reading Goals All Things Algebra Gina Wilson Linear Equations
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of All Things Algebra Gina Wilson Linear Equations
 - Fact-Checking eBook Content of All Things Algebra Gina Wilson Linear Equations
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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