

Characteristics of Linear Functions



Example Function

Linear Function Equation:

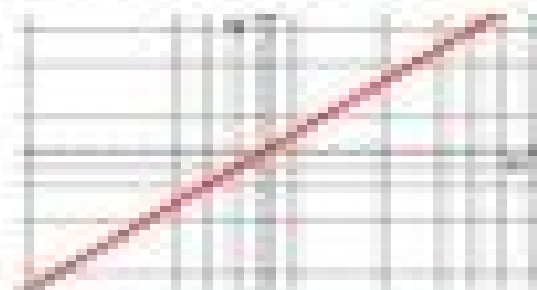
$$y = 2x + 1$$

Domain:

all real numbers or $(-\infty, \infty)$

Range:

all real numbers or $(-\infty, \infty)$



Table

x	y
-1	-1
0	1
1	3
2	5
3	7

- What pattern do you observe in the table and graph of the linear function? For each point, the x-value and y-value are equal, the x-increments are equal, and the y-increments are equal.

General Characteristics

Characteristics of linear functions (slope, y-intercept, and domain) have been addressed in previous math courses.

Sources of Linear Equations

Standard Form:

$ax + by = c$, where a and b are positive values

Slope-Slope Form:

$y - y_1 = m(x - x_1)$

Slope-Intercept Form:

$y = mx + b$

Slope-Intercept Form

In the slope-intercept form, slope m (steepness of the line) and b (the y-intercept) affect the graph of the linear function.

Changes caused by m

- $m = 0$, no change in slope of passing function
- $m > 0$, m is positive and the line increases from left to right
- $m < 0$, m is negative and the line falls from left to right
- $|m| > 1$, steep of the graph increases ($|m|$)

Vertical Lines

- $x = 0$ or $x = 2$, no change in slope of the function (vertical lines have no slope)

Changes caused by b

- $b = 0$, no change in y-intercept of passing function, always $(0, 0)$
- $b > 0$, vertical shift up b units
- $b < 0$, vertical shift down $|b|$ units

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United States. Office of Education

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the United States Office of Education text.

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Mathematics Unit Planning in a PLC at Work®, High School Sarah Schuhl, Timothy D. Kanold, Bill Barnes, Darshan M. Jain, Matthew R. Larson, Brittany Mazingo, 2020-12-31 Champion student mastery of essential mathematics content in grades 9-12 Part of the Every Student Can Learn Mathematics series this guidebook provides high school teachers with a framework for collectively planning units of study in a professional learning community PLC The authors share tools and protocols for unwrapping standards generating unit calendars developing rigorous lessons and many other essential team actions Use this resource to discover practical insight into collaborative planning and inspiring detailed models of unit planning in action Understand how to collaboratively plan units for high school mathematics Study the seven unit planning elements and learn how to incorporate each in unit designs Review the role of the PLC at Work process in enhancing student learning and teacher collaboration Observe model units for Algebra 1 geometry and Algebra 2 Receive tools and templates for effective unit planning Contents Introduction by Timothy D Kanold Part 1 Mathematics Unit Planning and Design Elements Chapter 1 Planning for Student Learning of Mathematics in High School Chapter 2 Unit Planning as a Collaborative Mathematics Team Part 2 Transformations on the Coordinate Plane Unit Examples for Algebra 1 Geometry and Algebra 2 Chapter 3 Algebra 1 Unit Graphs of Quadratic Functions Chapter 4 Geometry Unit Transformations and Congruence Chapter 5 Algebra 2 Unit Graphs of Trigonometric Functions Epilogue Mathematics Team Operations Appendix A Create a Proficiency Map Appendix B Checklist and Questions for Mathematics Unit Planning National Survey of Secondary Education United States. Office of Education, 1933 **Bulletin** United States. Office of Education, 1933 **Nursery Schools** Cecil Branner Hayes, Elise Henrietta Martens, Florence Cornelia Fox, James Frederick Abel, Julian Edward Butterworth, Marie Margaret Ready, Mary Dabney Davis, Mrs. Katherine Margaret (O'Brien) Cook, Nathan William Newsom, Walter Herbert Gaumnitz, 1932 *Correspondence Courses Offered by Colleges and Universities Through the United States Armed Forces Institute* United States Armed Forces Institute, 1951 **DOD Pam** United States. Office of Armed Forces Information and Education, Resources in Education , 1998 **Official Guide to Catholic Educational Institutions and Religious Communities in the United States** , 1963 *Department of the Army Pamphlet* , 1951 **The Reserve Marine** , 1967

The Top Books of the Year Algebra2 Hs Mathematics Unit Lesson 01 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Algebra2 Hs Mathematics Unit Lesson 01 : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Algebra2 Hs Mathematics Unit Lesson 01

1. Understanding the eBook Algebra2 Hs Mathematics Unit Lesson 01
 - The Rise of Digital Reading Algebra2 Hs Mathematics Unit Lesson 01
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra2 Hs Mathematics Unit Lesson 01
 - 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 Algebra2 Hs Mathematics Unit Lesson 01
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra2 Hs Mathematics Unit Lesson 01
 - Personalized Recommendations
 - Algebra2 Hs Mathematics Unit Lesson 01 User Reviews and Ratings
 - Algebra2 Hs Mathematics Unit Lesson 01 and Bestseller Lists
5. Accessing Algebra2 Hs Mathematics Unit Lesson 01 Free and Paid eBooks
 - Algebra2 Hs Mathematics Unit Lesson 01 Public Domain eBooks
 - Algebra2 Hs Mathematics Unit Lesson 01 eBook Subscription Services
 - Algebra2 Hs Mathematics Unit Lesson 01 Budget-Friendly Options
6. Navigating Algebra2 Hs Mathematics Unit Lesson 01 eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra2 Hs Mathematics Unit Lesson 01 Compatibility with Devices
 - Algebra2 Hs Mathematics Unit Lesson 01 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra2 Hs Mathematics Unit Lesson 01
 - Highlighting and Note-Taking Algebra2 Hs Mathematics Unit Lesson 01
 - Interactive Elements Algebra2 Hs Mathematics Unit Lesson 01
8. Staying Engaged with Algebra2 Hs Mathematics Unit Lesson 01

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Algebra2 Hs Mathematics Unit Lesson 01
- 9. Balancing eBooks and Physical Books Algebra2 Hs Mathematics Unit Lesson 01
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra2 Hs Mathematics Unit Lesson 01
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Algebra2 Hs Mathematics Unit Lesson 01
 - Setting Reading Goals Algebra2 Hs Mathematics Unit Lesson 01
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebra2 Hs Mathematics Unit Lesson 01
 - Fact-Checking eBook Content of Algebra2 Hs Mathematics Unit Lesson 01
 - 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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