

nc math 1

quick study guide

> **MATH 1 BRAIN DUMP** <

LINEAR FUNCTIONS $y = mx + b$
always form a line!
Constant Rate of Change!

$y = mx + b$
set slope m $b = y$ -int
"per" "initial value"

$m = \text{SLOPE} = \text{AVERAGE RATE OF CHANGE}$
 $m = \frac{y_2 - y_1}{x_2 - x_1}$

STUDY

COVERS THE
HOT TOPICS OF
NC MATH 1!

Perpendicular + Parallel Lines

- meet at 90° angles
- opposite reciprocal slopes
ex: $\frac{3}{2} \rightarrow -\frac{2}{3}$
- NEVER + SAME SLOPE

How to write a linear equation
Given POINT + SLOPE... USE $y = mx + b$
① substitute in $x, y, \& m$ to solve for b
② rewrite $y = mx + b$ with m

REGRESSIONS aka Best Fit
USE DESMOS!
* table → make a table

Coordinate Geometry! $z = 2x^2y^3$

FORMULAS TO REMEMBER

Distance: $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ or Pythagorean Theorem: $a^2 + b^2 = c^2$ (Just graph paper!)

Midpoint: $(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2})$

To classify...

- Quadrilaterals:
 - Parallelogram: opposite sides parallel
 - rectangle: right angles, opposite sides equal
 - square: right angles, all sides equal
 - rhombus: all sides equal
- Triangles:
 - isosceles: 2 sides equal
 - equilateral: all sides equal

Area and Perimeter:

- area: $A = l \cdot w$
- perimeter: $P = 2l + 2w$
- area: $A = \frac{1}{2}bh$
- circumference: $C = 2\pi r$

Exponential Functions: $y = a(b)^x$
growth: $y = a(b)^x$ decay: $y = a(1-r)^x$
initial value a growth or decay rate r
 $b > 1$ $0 < b < 1$

Quadratic Functions: $y = ax^2 + bx + c$
initial height: y -int or c
max/min height: find vertex $(-\frac{b}{2a}, \frac{4ac - b^2}{4a})$

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Table of Contents Mathematics 1study Guide

1. Understanding the eBook Mathematics 1study Guide
 - The Rise of Digital Reading Mathematics 1study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics 1study Guide
 - 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 Mathematics 1study Guide
 - User-Friendly Interface
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 - Personalized Recommendations
 - Mathematics 1study Guide User Reviews and Ratings
 - Mathematics 1study Guide and Bestseller Lists
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics 1study Guide
- 9. Balancing eBooks and Physical Books Mathematics 1study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics 1study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics 1study Guide
 - Setting Reading Goals Mathematics 1study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics 1study Guide
 - Fact-Checking eBook Content of Mathematics 1study Guide
 - 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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