

# nc math 1

## quick study guide

> **MATH 1 BRAIN DUMP** <

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

Set slope =  $m$   
Set y-intercept =  $b$   
Slope =  $m = \frac{y_2 - y_1}{x_2 - x_1}$   
Average Rate of Change =  $\frac{f(x_2) - f(x_1)}{x_2 - x_1}$

**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  $y = mx + b$   
Substitute in x, y, & m to solve for b  
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:  $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$   
Pythagorean Theorem:  $a^2 + b^2 = c^2$   
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 formulas:

- 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:  $r$   
 $b > 1$  for growth,  $0 < b < 1$  for decay

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

# doodle format

# Mathematics 1study Guide

**M Carnoy**



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