

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
- $b > 1$: growth or decay rate
- $0 < b < 1$: decay rate

Quadratic Functions: $y = ax^2 + bx + c$

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

doodle format

Mathematics 1study Guide

Zhe Xu



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