# Math 10 Midterm Outline

# Units covered:

Unit 1 Number systems / Radicals

Unit 2 Exponents

Unit 3 Functions/relations (graphing, domain, perpendicular)

Unit 4 Slope

Unit 5 Equations of lines

\*\*\*Systems of Equations (unit 6) is NOT on the Midterm\*\*\*

# Midterm Format

10 Non-calculator questions

Turning mixed radicals to entire radicals and back

  Order numbers in radical form based on size

Simplify variables with powers

  Identify rational/irrational numbers

  Find LCM and write numbers as a product of primes

Identify domain / range from a graph

Write equations given slope and a point

Identify relations (each X only goes to one Y)

Find K in a slope if it's parallel or perpendicular to another

Decide whether a relation is a "function"

Determine the slope of a line given 2 points

10 Calculator Questions

  Write the equation of a line on a graph

Given the equation of a line, determine if a point is on the line

Simplify cube roots

Simplify rational expressions with negative powers

Simplify expressions with fraction powers

Simplify roots that are being multiplied or divided

Convert from general form to slope-intercept form and back

Find slope from word problems

Determine the equation of a line through a point and parallel/ perpendicular to another line