

Format of Semester Test-

This is half an AP EXAM

21 Multiple Choice questions- Receive 1 pt for each correct answer

3- Free response questions they will each be graded on a 0-9 scale

Each part counts as 50% of the exam grade

Free Response questions will have multiple parts - Real AP style problems

Reading an $f'(x)$ Graph

Rectilinear Motion (PVA)

Implicit differentiation

MIDTERM TOPICS

Finding Limits

From graph

Using algebraic methods

Continuity

Differentiability

Derivatives

Approximating Derivatives from a table

Power Rule

Product Rule

Quotient Rule

Chain Rule

Derivatives of Trig functions

Equations of Tangent lines

Horizontal and Vertical Tangent Lines

Interpreting graphs of f and f'

Implicit Differentiation

Related Rates

Absolute Maximums and Minimums

Relative Maximums and Minimums

Finding Critical Numbers

Finding Inflection Points

Meaning of First and Second Derivatives

Increasing / Decreasing Functions

Concavity of graphs / functions

Rectilinear Motion Problems

Anti-derivatives

Riemann sums

Left Endpoint, Right Endpoint, Midpoint

Trapezoidal Rule

Indefinite Integrals

General Solution

Particular Solution

Definite Integrals

First and Second FTC

PVA