

CALCULUS 12 LG 20

Course Final Exam



EVALUATION:

This is the LG 20 course final exam which will be on the material learned in the course.

The test is out of 60.

There are 20 multiple choice questions (20 marks) and 10 written questions (40 marks).

MULTIPLE CHOICE TOPICS

Limits: as x approaches infinity, as x approaches a finite number, piecewise.

Continuous functions: What value makes a piecewise function continuous?

Derivatives: product rule, trig, chain rule, implicit, exponential and logarithmic, inverse trig

Find equation of tangent line

Relative extrema

Newton's Method

Displacement

Definite and indefinite integrals

Differential equation

WRITTEN TOPICS

Limit

Prove if a function is continuous or not (including from the left or right).

Find equation of tangent and normal lines.

Implicit differentiation.

Related rates

Find the relative extrema of a function

Use Newton's Method to approximate a solution.

Definite integral

Displacement and total distance travelled.

Differential equation.