

# CALCULUS 12 LG 19

## UNIT 4 TEST



### EVALUATION:

This is the Unit 4 test which will be on the expectations from LG 15-18.  
Graphing calculators will not be permitted on the unit test but will not be necessary.

The test is out of 38.  
There are 10 written questions.

### TOPICS YOU SHOULD KNOW:

- Reimann Sums (Left, right, mid point).
- Indefinite integrals
- Definite integrals
- Fundamental Theorem of Calculus – Part 2
- Position, velocity, acceleration.
- Displacement and total distance travelled.
- Average value on an interval.
- Find area between 2 curves.
- Find volume of solids by cross sections
- Find volume of solids by revolution
- Solve separable differential equations with an initial value.
- Solve differential equations within a word problem.

### **To prepare for the unit test, you could do one or all of the following:**

- Re-watch the instructional videos.
- Review your notes and journal entries.
- Re-do some questions from the learning guides on the above topics.
- Complete the practice quizzes for Chapters 7, 8 and 10 (but only the questions that deal with the above topics as we skipped sections 7.8 & 7.9, 8.3-8.8 and 10.2). You can access the practices quizzes at [www.thssmath.com](http://www.thssmath.com) or click [here](#).