

# CALCULUS 12 LG 1

## PRECALCULUS



### INTRODUCTION:

The first chapter of the text will look at a variety of different functions that will be referred to throughout the course. Students who have already taken Math 12 Pre-Calculus will find this learning mostly a review.



### LEARNING GUIDE EXPECTATIONS:

On the completion of this learning guide you will be able to:

- 1) describe the properties of functions.
- 2) sketch, model and apply composite functions to solve problems.
- 3) sketch and analyse the graphs for linear functions.



### EVALUATION:

You are ready to progress to the next learning guide when you can demonstrate your understanding of the above expectations. There will NOT be a quiz for this learning guide.



### RESOURCES NEEDED:



Calculus 12 text.



[www.thssmath.com](http://www.thssmath.com)

## LEARNING ACTIVITIES

As an introduction to what Calculus is all about, I would encourage you to read pages 1-12 in the text. Information here will not be evaluated.



**Expectation #1: Describe the properties of functions.**

1. Read pages 16-22.
2. Do pages 22-23  
#3, 5.
3. Read pages 24-33.
4. Do pages 33-34  
#1-7,11,13.



**Expectation #2: Sketch, model and apply composite functions to solve problems.**

1. Read pages 47-57.
2. Do pages 57-60  
#1, 5, 17, 21, 25, 31-44, 47, 49, 59, 61, 78(a & c).



**Expectation #3: Sketch and analyse the graphs for linear functions.**

1. Read pages 61-71.
2. Do pages 71-73  
#1, 7, 9, 15-25, 27, 33.