Math 12 Pre-Calculus LG 4 RADICAL FUNCTIONS

INTRODUCTION:

You can model many situations using radical functions. Check out pages 60-61.

LEARNING GUIDE EXPECTATIONS:

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

- 1) Sketch the graph of a radical function and identify its properties such as domain, range and intercepts.
- 2) Sketch the graph of $y = \sqrt{f(x)}$ given the graph of y = f(x).
- 3) Solve radical equations graphically and algebraically.



Write the LG 4 assessment quiz in the test centre.



LEARNING ACTIVITIES:



Expectation #1: Sketch the graph of a radical function and identify its properties such as domain, range and intercepts.

1. Watch and take notes on instructional video on Radical Functions & Transformations.

- 2. In the textbook, read Link the Ideas on page 63.
- 3. Work through Examples 1 4 on pages 63 71 and complete the corresponding "Your Turn" questions.

4. Read Key Ideas on page 72. In your math journal, sketch the graph of $y = \sqrt{x}$ and describe its properties.

5. In the textbook, complete pages 72-77 #1 - 5, 8, 10 – 14, 16, C1.



REVIEW AND CHALLENGE

1. In the textbook, complete Chapter 2 Review pages 99 - 101 #1 - 18 2. Complete Chapter 2 Practice Test pages 102 - 103 #1 - 15.

Key Terms: radical function, square root of a function.

PRACTICE QUIZZES

Practice quiz #1 Practice quiz #2 Practice quiz #3 Practice quiz #4