

# Math 11 Pre-Calculus LG 8

## UNIT 2 REVIEW



### INTRODUCTION:

In order to prepare for a Unit test, some activities are needed to properly study the material you will be tested on. The more questions you can practice, the better prepared you will become. It is also good practice to look at previous quizzes in this course to see the types of questions you might get on your next test, as well as see the ones that have caused you trouble in the past.



### LEARNING GUIDE EXPECTATIONS:

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

- LG 5:
- 1) analyze and graph quadratic functions and identify the vertex, domain and range,  $x$  and  $y$  intercepts, axis of symmetry, and direction of opening.
  - 2) convert quadratic functions from standard form to vertex form by “completing the square”.

- LG 6/7:
- 3) solve quadratic equations by graphing.
  - 4) factor quadratic equations in order to find the solutions.
  - 5) solve quadratic equations by completing the square.
  - 6) use the quadratic formula to determine the solutions.



### EVALUATION:

Take the LG8 Unit #2 test in the test centre.



### RESOURCES NEEDED:



Math 11 Pre-Calc Text



Math 11 Pre-Calc Learning Guides.

### LEARNING ACTIVITIES:

In order to review for the unit test, you should do the following:



1. Review your math journal for learning guides 5-7.



2. Complete the **Check Your Understanding** questions listed below:
  - pages 157-162 #11, 13, 15, 16bc, 18→21, and 23→25
  - pages 174-179 #3, 11, 13, 14, 19, 23, and 24
  - pages 194-197 #17, 18, 20, 21, 25, 27, 29, and 30
  
3. Complete the **Practice Test** on pages 201-203.
  
4. Complete the **Check Your Understanding** questions listed below:
  - pages 215-217 #8, 12, 14, and 15→18
  - pages 229-233 #12, 15, 17, 19, 22, 23, 27, 30, and 31
  - pages 240-243 #11, 12, 13, 16, and 18→21
  - pages 254-257 #5, 10, 14, 15, 18, and 21→23 (extra 19)
  
5. Complete the **Practice Test** on pages 261-262.

## PRACTICE UNIT TESTS

[Practice test #1](#)

[Practice test #2](#)

[Practice test #3](#)

[Practice test #4](#)