### Math 12 Pre-Calculus LG 19

### **UNIT 6 REVIEW**



A review of Learning Guides 16 -18.

## LEARNING GUIDE EXPECTATIONS:

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

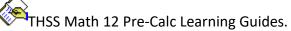
- LG 16: 1) Graph, analyze and compare rational functions using transformations and technology.
  - 2) Determine whether graphs have an asymptote or a point of discontinuity for a non-permissible value.
  - 3) Solve rational equations.
- LG 17: 4) Sketch and analyze the sum and difference of functions.
  - 5) Sketch and analyze the product and quotient of functions.
  - 6) Sketch and analyze the composition of functions.
- LG 18: 7) Solve problems using the Fundamental Counting Principle.
  - 8) Determine the number of permutations of n elements taken r at a time.
  - 9) Solve counting problems when two or more elements are identical.
  - 10) Solve an equation involving permutations.
  - 11) Determine the number of combinations of *n* elements taken *r* at a time.
  - 12) Solve an equation involving combinations.
  - 13) Expand  $(x + y)^n$  using the binomial theorem.

# EVALUATION:

You are ready to progress to the next learning guide when you can demonstrate your understanding of the above expectations. All students will write the Unit 6 Test which will cover all of the expectations of Learning Guides 16, 17 & 18.









### **LEARNING ACTIVITIES:**

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



- 1. Review your math journal for learning guides 16, 17 & 18.
- 2. Review your assessment quizzes for LG 16 18.



- 3. Complete Cumulative Review pages 550 551 #1-22.
- 4. Complete Unit 4 Test pages 552 553 #1-22.

#### PRACTICE UNIT TESTS

Practice Unit Test #1

Practice Unit Test #2

Practice Unit Test #3

Practice Unit Test #4