

Math 10 Pre-Calc LG 11

UNIT 3 REVIEW (GRAPHING)

LEARNING GUIDE EXPECTATIONS:

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

- 1) describe a possible situation for a given graph
- 2) sketch a possible graph for a given situation
- 3) determine if a relation is linear and explain why or why not
- 4) represent linear relations in a variety of ways
- 5) identify independent and dependent variables in a relation
- 6) explain why data points should or should not be connected on the graph
- 7) explain and express the meaning of domain and range in a variety of ways
- 8) sort relations into functions and non-functions
- 9) use function notation
- 10) graph linear functions
- 11) determine the slope of a line and use slope to draw lines
- 12) explain how slope represents a rate of change
- 13) solve problems involving slope
- 14) identify the slope and y-intercept of a straight-line graph
- 15) use slope-intercept form to graph, determine a line's equation, and solve problems
- 16) convert a linear equation to general form and use it to solve problems
- 17) use intercepts to graph a line and relate the intercepts to a situation
- 18) use slope-point form to determine a line's equation, and solve problems
- 19) identify whether two lines are parallel, perpendicular, or neither
- 20) write the equation for, and solve problems involving parallel and perpendicular lines.



EVALUATION:

You are ready to progress to the next learning guide when you can demonstrate your understanding of the above expectations. Please refer to your Math 10 Pre-Calc Marks Record Sheet to determine the assessment.



RESOURCES NEEDED:



Mathematics 10 Text

LEARNING ACTIVITIES:

In order to review for the Unit Test, you should do the following:



1. Review your Math Journal entries for Learning Guides 7 - 10.



2. In the Mathematics 10 text, complete the following:

- a) #1 – 10 on pages 335 – 337.
- b) #1 – 15 on pages 399 – 401
- c) #4 – 11 on pages 406 – 407
- d) #1 – 11 on page 408 – 409

CHAPTER REVIEWS

[Chapter 6 Review](#)

[Chapter 6 Review Answers](#)

[Chapter 7 Review](#)

[Chapter 7 Review Answers](#)

TOPIC REVIEWS

[Domain and Range](#)

PRACTICE UNIT TESTS

[Practice Unit Test #1](#)

[Practice Unit Test #2](#)

[Practice Unit Test #3](#)

[Practice Unit Test #4](#)

[Practice Unit Test #5](#)