

Foundations of Math 10 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 Foundations of Mathematics 10 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](#)