

Adult Basic Education (ABE)

Level III Mathematics

Mathematics 2101B

Radicals/Statistics/Quadratic Functions

Study Guide

Resource: *Principles of Mathematics 11. Nelson. 2011. ISBN-13: 978-0-17-650412-0.*

Level III Degree and Technical/Business-Related College Profiles Mathematics Courses (Academic)

Mathematics 1101A: Measurement/Trigonometry/Factors and Products

Mathematics 1101B: Roots and Powers/Relations and Functions

Mathematics 1101C: Linear Functions/Systems of Linear Equations

Mathematics 2101A: Reasoning/Angles and Triangles/Trigonometry

Mathematics 2101B: Radicals/Statistics/Quadratic Functions

Mathematics 2101C: Quadratic Equations/Proportional Reasoning

Mathematics 3101A: Set Theory/Counting Methods/Probability

Mathematics 3101B: Rational Expressions and Equations/Polynomial Functions/Exponential Functions

Mathematics 3101C: Logarithmic Functions/Sinusoidal Functions/Borrowing Money



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General Information

Introduction

Mathematics 2101B when completed with **Mathematics 2101A and C** is equivalent to the Newfoundland and Labrador senior high school **Mathematics 2201 (Academic)** course.

Resources

The student resource for this course is: *Principles of Mathematics 11. Nelson. 2011.* Your instructor may also supplement with other resources at his/her discretion.

Study Guide

This Study Guide is intended to make it possible for you to work independently in ABE. You may be able to work on your own for certain periods of time. All students doing this course in Newfoundland and Labrador use this Study Guide. Please ensure your instructor is aware of your progress in this Study Guide. Ask your instructor for assistance whenever you feel you need help.

The Study Guide is organized in two columns:

Required Work This column provides a list of all the work required to be completed for the course. Your instructor may supplement with additional items or make small changes to the required work as deemed appropriate.	Notes This column provides additional information that will help you complete the required work.
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Recommended Evaluation

Written Notes (Including all the Required Work)	10%
Assignments	20%
Tests	20%
Final Exam (entire course)	50%
Total	100%

Instructors have the discretion to make minor changes to this evaluation scheme.

Unit 1: Radicals

Required Work	Notes
<ol style="list-style-type: none">1. Read pages 176-181, and then complete 1-17, pages 182-183.2. Read pages 184-187, and then complete 1-19, pages 188-190.3. Read pages 191-197, and then complete 1-21, pages 198-200.4. Read page 202 in the Mid-Chapter Review, and then complete the problems on page 203.5. Read pages 204-211, and then complete 1-15, pages 211-213.6. Read pages 214-215, and then complete 1-5, page 215.7. Read pages 216-221, and then complete 1-15, pages 222-224.8. Complete Chapter Self-Test, page 225.9. Assignment #1: Read pages 226-227 in the Chapter Review, and then complete the problems on page 228.10. Test #1: Your instructor will give you Test #1.	<p>This assignment will be graded and is part of the course evaluation.</p>

Unit 2: Statistics

Required Work	Notes
<ol style="list-style-type: none">1. Read pages 238-239, and then complete 1-3, pages 239-240.2. Read pages 241-248, and then complete 1-11, pages 249-253.3. Read pages 254-260, and then complete 1-13, pages 261-264.4. Read pages 266-267 in the Mid-Chapter Review, and then complete the problems on pages 267-268.5. Read pages 269-278, and then complete 1-15, pages 279-281.6. Read pages 283-291, and then complete 1-20, pages 292-294.7. Read pages 295-301, and then complete 1-10, pages 302-304.8. Complete Chapter Self-Test, page 305.9. Assignment #2: Read pages 306-309 in the Chapter Review, and then complete the problems on pages 308-310.10. Test #2: Your instructor will give you Test #2.	<p>This assignment will be graded and is part of the course evaluation.</p>

Unit 3: Quadratic Functions

Required Work	Notes
<ol style="list-style-type: none">1. Read pages 322-323, and then complete 1-6, page 324.2. Read pages 325-332, and then complete 1-17, pages 332-336.3. Read pages 337-345, and then complete 1-18, pages 346-349.4. Read pages 351-352 in the Mid-Chapter Review, and then complete the problems on page 353.5. Read pages 354-362, and then complete 1-16, pages 363-366.6. Read pages 368-376, and then complete 1-16, pages 376-380.7. Complete Chapter Self-Test, page 383.8. Assignment #3: Read pages 384-385 in the Chapter Review, and then complete the problems on pages 386-388.9. Test #3: Your instructor will give you Test #3.10. Final Exam: Your instructor will give you the Final Exam on the entire course.	<p>This assignment will be graded and is part of the course evaluation.</p> <p>Your instructor may decide to substitute Test #3 with the Final Exam on the entire course.</p>

