

Adult Basic Education (ABE)

Level III Mathematics

Mathematics 2101A

Reasoning/Angles and Triangles/Trigonometry 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



Contents

General Information	3
Introduction	3
Resources.....	3
Study Guide.....	3
Unit 1: Reasoning	5
Unit 2: Angles and Triangles	6
Unit 3: Trigonometry.....	7

General Information

Introduction

Mathematics 2101A when completed with **Mathematics 2101B 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	Notes
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.	This column provides additional information that will help you complete the required work.

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: Reasoning

Required Work	Notes
<ol style="list-style-type: none">1. Read pages 6-12, and then complete 1-19, pages 12-15.2. Read pages 16-17, and then complete 1-3, page 17.3. Read pages 18-22, and then complete 1-18, pages 22-25.4. Read pages 27-31, and then complete 1-16, pages 31-33.5. Read page 34 in the Mid-Chapter Review, and then complete page 35.6. Read pages 36-41, and then complete 1-7, pages 42-44.7. Read pages 45-48, and then complete 1-17, pages 48-51.8. Read pages 52-55, and then complete 1-14, pages 55-57.9. Complete Chapter Self-Test, page 58.10. Assignment #1: Read pages 59-60 in the Chapter Review, and then complete the problems on pages 61-62.11. Test #1: Your instructor will give you Test #1.	This assignment will be graded and is part of the course evaluation.

Unit 2: Angles and Triangles

Required Work	Notes
<ol style="list-style-type: none">1. Read pages 70-71, and then complete 1-6, page 72.2. Read pages 73-78, and then complete 1-19, pages 78-82.3. Read page 84 in the Mid-Chapter Review, and then complete the problems on page 85.4. Read pages 86-90, and then complete 1-17, pages 90-93.5. Read pages 94-99, and then complete 1-19, pages 99-103.6. Read pages 104-105, and then complete 1-4, page 106.7. Read pages 107-112, and then complete 1-17, pages 112-115.8. Complete Chapter Self-Test, page 116.9. Assignment #2: Read pages 117-118 in the Chapter Review, and then complete the problems on pages 119-120.10. Test #2: Your instructor will give you Test #2.	This assignment will be graded and is part of the course evaluation.

Unit 3: Trigonometry

Required Work	Notes
<ol style="list-style-type: none">1. Read pages 130-131, and then complete 1-5, page 131.2. Read pages 132-138, and then complete 1-15, pages 138-141.3. Read page 142 in the Mid-Chapter Review, and then complete the problems on page 143.4. Read pages 144-150, and the complete 1-13, pages 150-153.5. Read pages 154-160, and then complete 1-14, pages 161-163.6. Complete Chapter Self-Test, page 166.7. Assignment #3: Read page 167 in the Chapter Review, and then complete the problems on page 168.8. Test #3: Your instructor will give you Test #3.9. 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>