

Adult Basic Education (ABE)

Level III Mathematics

Mathematics 1102C

Pythagorean Relationship/Trigonometry

Study Guide

Resource: *Math at Work 10*. McGraw-Hill Ryerson. 2011. ISBN 13:978-007109106-0.

Level III General College Profile Mathematics (General)

Mathematics 1102A: Consumerism and Travel/Measuring Length/Measuring Area

Mathematics 1102B: Getting Paid/Angles

Mathematics 1102C: Pythagorean Relationship/Trigonometry

Mathematics 2102A: Surface Area/Drawing and Design/Volume and Capacity

Mathematics 2102B: Interpreting Graphs/Banking and Budgeting

Mathematics 2102C: Slope/Right Triangles and Trigonometry

Mathematics 3102A: Measurement and Probability/Data/Linear Relationships

Mathematics 3102B: Financial Decisions/Properties of Figures

Mathematics 3102C: Transformations/Trigonometry



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General Information

Introduction

Mathematics 1102C when completed with **Mathematics 1102A and B** is equivalent to the Newfoundland and Labrador senior high school **Mathematics 1202 (Applied)** course. Students must have successfully passed **Mathematics 1102B** in order to do this course.

Resources

The student resource for this course is: *Math at Work 10*. McGraw-Hill Ryerson. 2011. ISBN 13:978-007109106-0.

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	30%
Tests/Quizzes	60%
Total	100%

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

Unit 1: Pythagorean Relationships

Required Work	Required Notes
<ol style="list-style-type: none">1. Complete Get Ready, pages 282-283.2. Read pages 284-287, and then complete 1-6, pages 288-290.3. Complete 1-5, pages 290-291.4. Read pages 294-295, and then complete 1-7, pages 296-297.5. Read page 298, and then complete 1-6, pages 299-300.6. Complete 1-9, pages 301-302.7. Read page 305, and then complete 1-8, pages 306-307.8. Read pages 308-309, and then complete 1-6, pages 310-311.9. Complete 1-7, pages 312-313.10. Complete Skill Check, pages 314-315.11. Assignment #1: Complete Test Yourself, pages 316-317.12. Test #1: Your instructor will give you Test #1.	<p>Define hypotenuse and leg.</p> <p>Define the Pythagoras relationship.</p> <p>This assignment will be graded and is part of the course evaluation.</p>

Unit 2: Trigonometry

Required Work	Required Notes
1. Complete get ready, pages 322-323.	
2. Read pages 326-327, and then complete 1-9, pages 328-329.	Define polygon, similar figures, and corresponding sides.
3. Read pages 330-331, and then complete 1-6, pages 332-333.	
4. Complete 1-9, pages 334-335.	
5. Read pages 336-339, and then complete 1-9, pages 340-341.	Define opposite side, adjacent side, and tangent ratio.
6. Read pages 342-343, and then complete 1-7, pages 344-345.	
7. Complete 1-10, pages 346-347.	
8. Read pages 348-351, and then complete 1-9, pages 352-353.	Define sine ratio.
9. Read pages 354-355, and then complete 1-9, pages 356-357.	Define cosine
10. Read pages 358-359, and then complete 1-6, pages 360-361.	
11. Complete 1-8, pages 362-363.	

