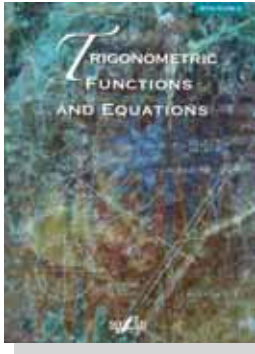


COURSE TITLE	PROGRAM	CODES	
Trigonometric Functions and Equations	Mathematics	SAGE MTH-5108-2	SÉSAME



INTRODUCTION

In this course, students will learn about the various concepts related to trigonometric functions. They will learn about the trigonometric circle, angular and arc measures expressed in radians and the wrapping function. While all of the trigonometric functions will be covered, the graphs of the sine, cosine and tangent functions will be examined in greater detail. Students will also use trigonometric identities and the definitions of the trigonometric ratios to prove trigonometric identities and to solve simple trigonometric equations. Lastly, they will use sinusoidal functions to model situations and to solve problems.

CONTENT

- Converting from Degrees to Radians and from Radians to Degrees
- The Wrapping Function
- Evaluating a Trigonometric Function for a Number Expressed in Radians
- Graphing a Trigonometric Function
- Graphing a Sinusoidal Function
- Fundamental Trigonometric Identities
- Proving Simple Trigonometric Identities
- Solving Simple Trigonometric Equations of the First and Second Degrees
- Trigonometric Functions Involving a Sum or a Difference of Two Real Numbers
- Solving Problems Using Sinusoidal Function

TARGET POPULATION

Anyone wishing to complete the Secondary V program, which is equivalent to the courses MTH-526 or MTH-536 in the youth sector

PREREQUISITES

MTH-426 or MTH-436

DURATION 50 hours

NUMBER OF CREDITS 2

ASSIGNMENTS

3

WEIGHTING

33 1/3%

CORRECTION TIME

An estimated 20 minutes for each assignment, including written explanations and comments.

EVALUATION A supervised ministerial examination in an adult education centre. Passing mark: 60%.

MATERIALS**ADULT EDUCATION CENTRES**

CODE	ITEM	PRICE
8-1530-01	Guide Trigonometric Functions and Equations MTH-5108-2 (556 p.)	16 \$

DISTANCE EDUCATION KIT

SOFAD PRODUCT CODE:	PRICE:
9-1530	23 \$
8-1530-01 Guide Trigonometric Functions and Equations MTH-5108-2 (556 p.)	
0-1530-50 Assignments B (3) Trigonometric Functions and Equations MTH-5108-2	

Note : Prices are subject to change at any time. Please visit our web site (www.sofad.qc.ca/catalogues) for current prices.

REMARKS**PRODUCTION****AUTHOR(S):** Alain Malouin**PUBLICATION DATE:** 2008-06-04**SOFAD CONTENT COORDINATOR:** Jean-Paul Groleau

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