

MATH 208
Fundamental Mathematics I
Winter 2008

Instructor: _____

Office/Tel No: _____

Office Hours: _____

Course Examiner: Dr. D. Sen, E-mail: sen@mathsat.concordia.ca

Text: *Finite Mathematics for Business, Economics, Life Sciences, and Social Sciences*,
11th Edition, by Barnett, Ziegler, & Byleen.

Caution: It is assumed that you have the pre-requisite of MATH 206 or its equivalent. If you do not, please consult with a course advisor.

Math Help Centre: It has been organized to help students in solving problems. The location is LB 912 and the schedule is posted in the Department.

Assignments: Assignments are given every week. They are not to be handed in and are for practice only. Solutions to all odd-numbered problems in the book are in the solution manual, which is available in the bookstore for a nominal fee of \$1.98.

Calculators: Only calculators approved by the Department are permitted in the class test(s) and final examination. The calculators are the Sharp EL 531 and the Casio FX 300MS.

Tests: Two 1-hour tests during the course. Missed tests cannot be made up.

Final Exam: There are no exemptions from this three-hour exam.

Final Grade: The final grade will be based on the higher of (a) or (b):
a) The weighted average of two class tests (30%) and of the final examination (70%);
b) The final examination 100%.

Week	Topics		Assignments
1	1.2	Graphs and Lines	p 26: 27, 29, 57, 61, 63, 65.
	2.3	Quadratic Functions	p 90: 15, 27, 35, 51.
2	2.3	Quadratic Functions (Polynomial and Rational Functions)	p 92: 57, 59, 63.
	2.4	Exponential Functions	p 103: 15, 19, 43, 45, 47, 63, 65.
3	2.5	Logarithmic Functions	p 116: 25, 29, 55, 59, 95.
	B.2	Arithmetic and Geometric Sequences	p 649: 25, 27, 33, 35, 49.
4	3.1	Simple Interest	p 133: 35, 37, 45.
	3.2	Compound Interest	p 146: 33, 43, 45, 51, 61, 63, 65.
5	TEST I		
	3.3	Future Value	p 156: 21, 23, 31, 39, 43.
	3.4	Present Value	p.167: 31, 33, 37, 41, 43.
6	RETURN TEST 1		
	4.1	Systems of Linear Equations	p 185: 15, 27, 41, 53.
	4.2	Systems of Linear Equations/Augmented Matrices	p 197: 43, 53, 55, 59, 63, 65.
7	4.3	Gauss-Jordan Elimination	p 208: 31, 37, 43, 57, 59.
	4.4	Matrices: Basic Operations	p 221: 33, 37, 51, 57, 67.
8	4.5	Inverse of a Square Matrix	p 235: 37, 49, 51, 53, 59.
	4.7	Leontief Input-Output	p 251: 17, 19, 27, 29, 31.
9	TEST II		
	5.1	Inequalities in Two Variables	p 266: 7, 13, 33, 37, 39.
	5.2	Systems of Linear Inequalities in Two Variables	p 273: 17, 21, 29, 31, 41.
10	RETURN TEST II		
	5.3	Linear Programming in Two Dimensions	p. 285: 15, 17, 19, 21, 23.
	7.3	Basic Counting Principles	p 372: 17, 23, 37, 41, 51.
11	7.4	Permutations & Combinations	p 385: 37, 41, 55, 61, 65.
	8.1	Sample Spaces, Events and Probability	p 403: 29, 59, 77, 83, 91.
12	8.2	Union, Intersection and Complement of Events	p 416: 57, 59, 71, 75, 79.
	8.3	Conditional Probability	p 430: 29, 31, 39, 41, 51.
13	REVIEW		