

Introduction to Mathematics 1

(PMTH 112)

2 Credits Hours

1439-1440 H

Text book

- Introduction to Math 1 compiled from Introduction to calculus by M. Zahri and College Algebra and Trigonometry by M. Lial
- Course Coordinator: Mohammad Sudqi Hamdan

Evaluation System:

Evaluation of the students in PMTH 112 includes:

- Two one Hour exams.
- Quizzes
- Final exam at the end of the semester.

Grades are distributed as the following:

Activities	Points
First Exam	20%
Second Exam	20%
Quizzes	10%
Participation	10%
Final Exam	40%
Total	100%

Letter Grade

The letter grades derived from the course mark and will based on the performance of the in the above exams and assignments as the following:

A+	A	B+	B	C+	C	D+	D	F
95-100	90-94	85-89	80-84	75-79	70-74	65-69	60-64	60 >

Course content:

Chapter 1: Review of basic concepts	1.1 Sets	6 Hrs.
	1.2 Real numbers and their properties	
	1.3 polynomials	
	1.4 factoring polynomials	
	1.5 Rational expressions	
	1.6 Rational exponents	
	1.7 Radical expressions	
Chapter 2: Equation and inequalities	2.1 Linear equations	6 Hrs.
	2.2 quadratic equations	
	2.3 Inequalities	
	2.4 Absolute value of equations and inequalities	
	First Exam (chapters 1-2)	20%
Chapter 3: Graph and functions	3.1 Functions	6 Hrs.
	3.2 Linear functions	
	3.3 Equations of lines and linear models	
	3.5 Even and Odd functions	
	3.6 Function operations and composition	

Chapter 4: Polynomial and Rational Functions	4.1 Parabolas	4 Hrs.
	4.3 Synthetic Division	
	4.4 Zeros of Polynomial Function	
	Second Exam (Chapters 3-4)	20%
Chapter 5: Inverse, Exponential, and Logarithmic Functions	5.1 Inverse Functions	6 Hrs.
	5.2 Exponential Functions	
	5.3 Logarithmic Functions	
	Final Exam (Chapters 1-5)	40%

Academic integrity:

All students are expected to follow the rules of Majmaah University. Unexpected absences exceeding 25% of total number of class meetings will result in " DN " grade and prevent student from doing the final exam.