KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
College of General Studies
Prep-Year Math Program
SYLLABUS
MATH001 – TERM 242

Week	Date	Sec.	Topic	Suggested Review Exercises
1	Jan. 12 Jan. 16	Review	Review of Some Arithmetic Operations	Recitation Paper
		P.2	Real Numbers	10,17,28,32,38,40,44,46,59,60,66,70,76,79,81,82
2	Jan. 19 Jan. 23	P.2	Real Numbers (Continue…)	10,17,28,32,38,40,44,46,59,60,66,70,76,79,81,82
		P.3	Integer Exponents and Scientific Notation	11,13,18,24,28,30,34,36,38,48
3	Jan. 26 Jan. 30	P.4	Rational Exponents and Radicals	10,17,16,18,20,26,30,36,39,43,48,52,54,57,62,67,78,84,87,90
		P.5	Algebraic Expressions	13,18,22,34,38,44,46,58,62,66,74,76,78,80,86
4	Feb. 02 Feb. 06	P.6	Factoring	10,14,20,22,30,36,42,46,48,52,60,90, 100,108,114
5	Feb. 09 Feb. 13	P.7	Rational Expressions	12,13,16,22,24,32,33,36,51,56,58,64,68,70,72,74,77,82,86,90,94
		P.8	Solving Basic Equations	10,12,14,28,36,40,49,52,54,66,70,76,77,85,98,100
6	Feb. 16 Feb. 20	1.1	The Coordinate plane	28,30,31,39,42,44,45,46,48,
		1.2	Graphs of Equations in Two Variables; Circles	10,14,18,24,29,30,32,36,40,48,50,56,58,70,74,76,78,79,80,82,84,90,94,96,97,98,100,102,104,
SAUDI FOUNDATION DAY: 23RD FEBRUARY 2025				
7	Feb. 24 Feb. 27	1.3	Lines	16,18,22,24,26,30,34,36,38,39,40,42,44,46,48,50,62,64,70,74,78,86
		1.4	Solving Quadratic Equations	12,13,16,20,26,38,48,54,56,61,62,65,66,67,68,70,85
8	Mar. 02 Mar. 06	1.5	Complex Numbers	70, 72
		1.6	Solving Other Types of Equations	6,14,18,22,24,28,32,36,38,40,42,44,46,48,50,54,56,58,60,62,66,68,69,70,71
9	Mar. 09 Mar. 13	1.7	Solving Inequalities	22,32,38,42,48,51,54,56,60,61,64,68,70
		1.8	Solving Absolute Value Equations and Inequalities	10,12,20,22,28,30,36,46,48,52,54,56
10	Mar. 16 Mar. 20	2.1	Functions	20,22,30,34,36,38,40,44,48,49,51,52,54,56,58,60,62,64,66,68,72
		2.2 2.3	Graphs of Functions; Getting Information from the Graph of a Function	6,10,16,8,20,22,24,26,28,36,40,45,50,52,54,56,59,60,64,66,68 (Section 2.2); 32,34,35 (Section 2.3)
E I D – F I T R V A C A T I O N: 23TH MARCH – 3RD APRIL 2025				
11	Apr. 06 Apr. 10	2.5	Linear Functions	7,10,12,13,15,17,19,24,27,28,29
		2.6	Transformations of Functions	8,10,12,14,16,18,19,21,22,24,40,48,52,54,58,60,62,66,68,70,72,75,85,86,88,89, 90,93
12	Apr. 13 Apr. 17	2.6	Transformations of Functions (continue ...)	
		2.7	Combining Functions	5,6,14,15,17,18,19,29,44,54,55,56,59,60,63,64,65,70,73,74
13	Apr. 20 Apr. 24	3.1	Quadratic Functions	6,12,16,20,27,29,37,42,48,51
		3.3	Dividing Polynomials	5,6,11,13,17,26,29,35,37,43,44
14	Apr. 27 May 01	3.4	Real Zeros of Polynomials	5,6,12,13,15,21,26,29,34,39,42,45,48,50,55,60,63,66,68,
		3.2	Polynomial Functions and their Graphs	3,4,9,10,18,20,24,31,34,36,38,45,50,53,55,57,60,62,63,65,68,70
15	May 04 May 08	3.5	Complex Zeros and the Fundamental Theorem of Algebra	7,9,13,17,18,23,31,37,41,45,47,58,64,66,67,69,72
		3.6	Rational Functions	10,12,15,17,21,24,26,32,33,35,45,53,55,59,63,67
16	May 11	3.6	Rational Functions (continue ...)	10,12,15,17,21,24,26,32,33,35,45,53,55,59,63,67
			Review for Final Exam	

Exclude the following: (Examples and their related concepts)

Sec. 1.4: Examples 6 & 7 (Check the application worksheet).

Sec. 1.6: Examples 8 & 9.

Sec. 1.7: Examples 7 & 8.

Sec. 1.8: Example 5.

Sec. 2.2: Examples 7.

Sec. 2.3: Examples 3, 4, 8 & 9.

Sec. 2.7: Example 7.

Sec. 3.1: Example 6 (Check the application worksheet).

Sec. 3.4: Examples 5, 6, 8 & 9.

Sec. 3.2: Examples 9 & 10.

Sec. 3.6: Graphs of rational functions of the form $f(x) = \frac{p(x)}{q(x)}$,

where $p(x)$ and $q(x)$ are non-linear polynomials