

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
College of Applied & Supporting Studies
Prep-Year Math Program
SYLLABUS
MATH001 - TERM 172

Week #	Date	Text Sec.	Topic	Suggested Review Exercises
1	Jan. 21 – 25	Review	Review of Some Arithmetic Operations	Recitation Paper
2	Jan. 28 – Feb. 01	P.2	The Real Numbers and Their Properties	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	Feb. 04 – 08	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
4	Feb. 11 – 15	P.5	Algebraic Expressions	13,18,22,34,38,44,46,58,62,66,74,76,78,80,86
		P.6	Factoring	10,14,20,22,30,36,42,46,48,52,60,90,100,108,114
5	Feb. 18 – 22	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
MAJOR EXAM I: TUESDAY, 27 TH FEBRUARY, 2018 [Chapter P]				
6	Feb. 25 – Mar. 01	1.1	Coordinate plane	28,30,31,39,42,44,45,46,48,
		1.2	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
7	Mar. 04 – 08	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	Quadratic Equations	12,13,16,20,26,38,48,54,56,61,62,65,66,67,68,70,85(Section 1.4), 70, 72 (Section 1.5)
8	Mar. 11 – 15	1.5	Complex Numbers	
		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. 18 – 22	1.7	Solving Inequalities	22,32,38,42,48,51,54,56,60,61,64,68,70
		1.8	Absolute Value Equations and Inequalities	10,12,20,22,28,30,36,46,48,52,54,56
10	Mar. 25 – 29	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	Graphs of Functions ; Increasing and	6,10,16,8,20,22,24,26,28,36,40,45,50,52,54,56,
		2.3	Decreasing functions	59,60,64,66,68 (Section 2.2) 32,34,35 (Section 2.3)
MAJOR EXAM I: WEDNESDAY, 04 TH APRIL, 2018 [1.1 – 2.5]				
11	Apr. 01 – 05	2.5	Linear Functions	7,10,12,13,15,17,19,24,27,28,29
		2.6	Transformation 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. 08 – 12	2.7	Combining Functions	5,6,14,15,17,18,19,29,44,54,55,56,59,60,63,64,65,70,73,74
		3.1	Quadratic Functions	6,12,16,20,27,29,37,42,48,51
13	Apr. 15 – 19	3.2	Dividing Polynomials	5,6,11,13,17,26,29,35,37,43,44
		3.3	Polynomial Functions and their Graphs (Exclude Real Maxima and Minima of Polynomials)	3,4,9,10,18,20,24,31,34,36,38,45,50,53,55,57,60,62,63,65,68,70
14	Apr. 22 – 26	3.4	Real Zeros of Polynomials (Exclude Upper and lower bounds Theorem)	5,6,12,13,15,21,26,29,34,39,42,45,48,50,55,60,63,66,68,
		3.5	Complex Zeros and Fundamental Theorem of Algebra	7,9,13,17,18,23,31,37,41,45,47,58,64,66,67,69,72
15	Apr. 29 – May 03	3.6	Rational Functions (Exclude Slant Asymptotes and end Behavior)	10,12,15,17,21,24,26,32,33,35,45,53,55,59,63,67
		Rev	Review for final exam	
FINAL EXAM: SATURDAY, 12 TH MAY 2018 [P.2 – 3.6]				

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
College of Applied & Supporting Studies
Prep-Year Math Program
SYLLABUS
MATH001 - TERM 172

Textbook: Algebra and Trigonometry, by J.Stewart, L.Redlin and S.Watson (Fourth edition 2014)

Objectives:

Upon completion of Prep-Year Math001 course, a student should be able to:

1. Perform basic algebraic operations
2. Recognize the concepts of functions, graphs and properties of functions and solve related equations.
3. Use algebraic, numerical, and graphical processes to manipulate and analyze equations, inequalities, and functional relationships.
4. Derive a correct solution for a given mathematical problem and interpret the outcome correctly

Note: The medium of instruction will be strictly ENGLISH from the first day of classes.

Grading Policy:

1. Exam I: 20% a common multiple-choice exam.
2. Exam II: 20% a common multiple-choice exam.
3. Final Exam: 36% a comprehensive common multiple choice exam.
4. Class Work: 18% based on a minimum of 5 quizzes (10%), 1 class tests (8%)
Any quiz or test under class activity should be of written type and not of a multiple-choice type.
5. Online homework (6%).

Unexcused absence:

Starting from the fifth time being absent, $\frac{1}{2}$ point will be deducted for each absence from the total grade.

Exam Questions:

The questions of the common exams are based on the examples, homework problems, recitation problems and the exercises of the textbook.

Missing an Exam:

No makeup exam will be given under any circumstance. When a student misses Exam I or Exam II for a legitimate reason (such as medical emergencies), his grade for this exam will be determined based on the Department's policy. Furthermore, the student must provide an official excuse within one week of the missed exam.

Attendance:

A student will be awarded the GRADE "DN" after missing 8 classes without an OFFICIAL excuse. It is the responsibility of the student to keep the record of his absences. Students will have ONLY 6 days to submit their excuses to the Prep-Year affairs (1st warning: 3 absences; 2nd warning: 6 absences; "DN": 8 absences)

Website: <http://www.kfupm.edu.sa/sites/pypmath/>