10A PACING
Fall 2011

TEACHER: Or Neeman

SUBJECT: Principles of Mathematics

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
July 2011	July 26 **ALGEBRA** Introductions, syllabus, ********** Strategies for math, Review factorization	27 Factorization: common factor and special product formulas	28 Factorization: difference of squares, difference of cubes, grouping	29 Factorization: filling in the square ********** Factorization: filling in the square and synthetic division
August 1 Factorization: synthetic division and combination of methods (incl. inspection)	2 Algebraic fractions: simplification ********** Algebraic fractions: simplification and operations	3 Quadratic equations: general considerations through simple examples	4 Quadratic equations: finding and expressing solution sets	5 Practice solving quadratic equations ********** Exercises with quadratic equations
8 Application of quadratic equations	9 Quiz #1 ********** Polynomial equations	10 Exercises with polynomial equations	11 Radical equations	12 Exercises with radical equations ********** Fractional equations
15 HOLIDAY	16 Exercises involving fractional equations ********** Review exercises on equations	17 Quiz #2	18 Review exercises on equations and applications	19 Midterm #1 ********** Midterm #1

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
22 Review linear inequalities	23 Quadratic inequalities ********** Quadratic inequalities	24 Polynomial inequalities	25 Fractional inequalities	26 Polynomial and fractional inequalities ********** Quiz #3 Progress reports
29 **LOGIC** Basic concepts of logic	30 Conjunction and disjunction, translations ********** Conditional and biconditional, translations	31 Practice translations	September 1 Truth tables of connectives, drawing truth tables	2 Drawing and using truth tables ********** Exercises combining translations and truth tables
5 Quiz #4	6 **FUNCTIONS** Basic concepts of functions ********** Exercises on concepts of functions	7 Review rectangular coordinates, apply to functions	8 Applications of the concept of functions	9 Mappings, images, preimages ********** Calculate images, preimages
12 Exercises involving functions, images, and preimages	13 Geometric applications of the concept of functions ********** Maximal domains: rational functions	14 Maximal domains: radical functions	15 HOLIDAY	16 Exercises on maximal domains ********** Review for midterm
19 Review for midterm	20 Midterm #2 ********** Midterm #2	21 Exercises about maximal domains (composite functions)	22 Exercises about maximal domains (composite functions)	23 General review Report cards

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1st Quarter, Fall 2011

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GRADE: 10A

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October 3 Review functions	4 Analyze graphs for properties of functions ********** Analyze graphs for properties of functions	5 Analyze graphs for images and preimages	6 Exercises about analyzing graphs	7 Exercises about analyzing graphs ********** Quiz #5
10 Graphing functions	11 Graphing functions ********** Transformations of functions	12 Graphing transformations of functions	13 Graphing transformations of functions	14 Solve exercises through graphing functions ********** Injectivity
17 HOLIDAY	18 Surjectivity ********** Bijectivity, all three concepts combined	19 Exercises about this classification of functions	20 Concept of inverse functions, examples	21 Test for inverse functions ********** Quiz #6
24 Review for midterm	25 Midterm #3 ********** Midterm #3	26 Find inverse functions	27 Find inverse functions and applications of inverse functions	28 ART FAIR

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
31 **LINEAR FUNCTION** (combines algebra, functions, geometry) Concept, examples of linear functions	November 1 Gradient and y-intercept ********** Intersections with axes	2 Find equation given two points	3 Find equation given a point and the gradient	4 Exercises on finding equations ********** Exercises on finding equations and intersections Progress reports
7 Midpoints and distances	8 Application: areas and perimeters ********** Application: areas and perimeters	9 Quiz #7	10 Find lines parallel to give a line	11 Perpendicularity and gradients ********** Find lines perpendicular to a given line
14 Exercises involving parallel and perpendicular lines	15 Exercises involving parallel and perpendicular lines ********** Intersections of lines	16 Systems of equations and intersections of lines	17 Exercises with finding intersections of lines	18 Exercises with finding intersections of lines ********** Applications of linear function
21 Exercises on applications of linear functions combining several tasts	22 Quiz #8 ********** Review for midterm	23 Review for midterm	24 Review for midterm	25 Review for midterm ********** General review
28 General review	29 Midterm #4 ********** Midterm #4	30 General review	December 1 General review	2 Semester Exams
Semester Exams 20	Semester Exams 21	Semester Exams 22	Semester Exams 23	Last Day School 24