

BARUCH COLLEGE  
DEPARTMENT OF MATHEMATICS  
MTH 1030 SYLLABUS

**Text:** College Algebra, Custom Edition for Baruch College by Elayn Martin-Gay, Pearson 2008.

**Bb** means the topic may be found on the MTH\_1030\_ALL Blackboard site.

All Homework Exercises are to be done on *MyMathLab* and are assigned by your instructor. The Exercise set number corresponds to the section number.

A scientific calculator is required for this course, but students may use a TI-89 or TI-92, if they wish.

<b>Section</b>	<b>Topics</b>	<b>Read Pages</b>	<b>Exercises (Use MyMathLab)</b>
5.1 Review	Exponents and Polynomials	P. 301– 309	MML 5.1: 1 – 37 odd, 41 – 55 odd, 61 – 75 odd
3.6	Functions Domain and Range	P. 223 - 230	MML 3.6: 1 – 31 odd, 39, 43, 45, 49, 51, 53, 57, 59, 61, 63, 65, 67, 73, 75, 85, 87
8.1	Graphs of Functions	P. 502 - 506	MML 8.1: 3, 5, 9, 11, 13, 17, 19, 23, 25, 29, 31, 35, 37, 39, 41, 43, 51, 57, 59, 79, 81, 85
8.2	Functional Notation	P. 510 - 515	MML 8.2: 1, 3, 5, 7, 9, 19, 23, 29, 31, 37, 61, 63
10.2	Rational Exponents	P. 586 – 591	MML 10.2: 1 – 41 odd, 45, 49, 51, 55, 59, 61, 65, 69, 71, 73, 77, 81, 85, 87, 89, 91, 93, 95
10.5	Rationalizing	P.608 – 612	MML 10.5: 1, 5, 11, 13, 19, 23, 27, 35, 39, 43, 45, 47, 51, 53, 59, 65, 69, 73, 77
10.6	Radical Equations and Problem Solving	P. 616 – 622	MML 10.6: 1, 5, 7, 9, 13, 17, 21, 25, 27, 37, 51, 55, 59, 61,
10.7	The Complex Numbers	P. 626 – 631	MML 10.7: 1, 5, 11, 15, 19, 21, 27, 31, 33, 35, 39, 43, 49, 55, 57, 69, 71, 73, 77, 83
<b>Bb</b>	Indeterminate Forms	P. AA-3 - 4	P. AA-4: 1 – 4 (all)
Review			P.638: 1, 5, 9, 11, 13, 17, 21, 25, 27, 32, 33, 37, 39, 43, 45, 55, 59, 67, 75, 79, 84, 85, 90, 93, 95, 100, 102, 105, 108, 113, 118, 123, 126, 132, 135
11.1	Quadratic Equations, Completing the Square	P. 645 – 651	MML 11.1: 1, 5, 9, 11, 15, 23, 25, 27, 29, 31, 35, 37, 43, 47, 53, 61, 63, 71
11.2	The Quadratic Formula	P. 654 – 660	MML 11.2: 1, 3, 7, 11, 13, 19, 23, 25, 29, 33, 35, 43, 45, 49, 51, 55, 61
11.3	Solving Equations by Using Quadratic Methods	P. 665 – 671	MML 11.3: 1, 3, 7, 9, 13, 15, 17, 19, 21, 23, 29, 31, 35, 39, 43, 51, 57, 59, 61, 65, 69
11.4	Non-Linear Inequalities	P. 674 – 678	MML 11.4: 1, 3, 7, 11, 15, 19, 21, 23, 29, 31, 35, 41, 46, 53
11.5	Quadratic Functions and Their Graphs	P. 681 – 686	MML 11.5: 1, 5, 9, 11, 13, 15, 23, 25, 33, 37, 47, 51, 53
11.6	Further Graphing of Quadratic Functions	P. 689 – 694	MML 11.6: 3, 5, 9, 11, 13, 17, 21, 27, 31, 37, 43, 45, 47, 49, 51, 53

Review			P. 701: 1 – 69 odd
12.1	Composite Functions	P. 706 – 709	MML 12.1: 1, 3, 7, 9, 11, 15, 19, 21, 23, 25, 27, 31, 33, 35
12.2	Inverse Functions	P. 712 – 719	MML 12.2: 1, 5, 7, 11, 13, 15, 17, 19, 21, 23, 25, 29, 31, 35, 37, 39, 47, 49
12.3	Exponential Functions	P. 722 – 727	MML 12.3: 1, 5, 11, 17, 19, 21 – 39 (odd), 43, 51
12.4	Logarithmic Functions	P. 730 – 735	MML 12.4: 1 – 81 (odd)
12.5	Properties of Logarithms	P. 738 – 741	MML 12.5: 1 – 77 (odd)
12.6	Common, Natural Logarithms and Change of Base	P. 744 – 748	MML 12.6: 1, 3, 5, 17, 21, 23, 25, 33, 37, 41, 45, 47, 49, 51, 53, 57, 63, 65, 67, 69
12.7	Exponential and Logarithmic Equations and Applications	P. 750 - 753	MML 12.7: 1, 5, 9, 11, 13, 15, 17, 19, 21, 23, 25, 29, 33, 35, 39, 41, 45, 47, 49, 51, 55
Review			P. 761: 3, 7, 11, 14, 15, 18, 23, 26, 29, 32, 37, 41, 43, 47, 53, 59, 63, 69, 71, 75, 76, 79, 85, 87, 89, 93, 95, 97, 101, 105, 109, 117, 118
13.1	Circles	P. 771 – 774	MML 13.1: 13 – 31 (odd), 37, 41, 45, 53, 57
<b>Bb</b>	Tangent Lines	P. AA-5 – 6	P. AA-6: 1 – 4 (all)
13.3	Solving Nonlinear Systems of Equations	P. 785 – 788	MML 13.3: 1, 3, 7, 11, 13, 15, 19, 21, 23, 25, 27, 29:

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