# BARUCH COLLEGE
# MATHEMATICS DEPARTMENT
# CSTM 0120 SYLLABUS

Text: College Algebra, 4th Custom Edition for Baruch College by Elayn Martin-Gay, Pearson Prentice Hall 2008

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

| Section | Topic | Read Pages | Exercises (odd problems only unless otherwise specified) |
|---|---|---|---|
| 3.1 | Reading Graphs and the Rectangular Coordinate System | 166-175 | p 176-180: 1-25, 49-55,61,63,67, 75-81 |
| 3.2 | Graphing Linear Functions | 181-187 | p 187-189: 1-15, 17,21,25,27,29,31, 35,37,41,43,45,51,53 |
| 3.3 | Intercepts | 190-196 | p 196-197: 1-53 |
| 3.4 | Slope and Rate of Change | 199-209 | p 209-211: 1-31, 33-58 (every other odd), 67,69 |
| 3.5 | Equations of Line | 214-219 | p 220-221: 1-60, 69,71,73,75 |
| 3.6 | Functions | 223-230 | p 230-232: 1-67 |
| 4.1 | Solving Systems of Linear Equations by Graphing | 245-251 | p 252: 1-51 (every other odd) |
| 4.2 | Solving Systems of Linear Equations by Substitution | 254-259 | p 259: 1-38 |
| 4.3 | Solving Systems of Linear Equations by Addition | 261-265 | p 265-266: 1-55 |
| 4.5 | Systems of Linear Equations And Problem Solving | 275-284 | p 285-288: 1-59 |
| 5.1 | Exponents | 300-309 | p 309-310: 1-25, and 27-103 (every other odd) |
| 5.2 | Polynomial Functions and Adding & Subtracting Polynomials | 312-320 | p 321-322: 1-53, and 55-85 (every other odd) |
| 5.3 | Multiplying Polynomials | 324-327 | p 327-328: 1-51, and 53-73 (every other odd) |
| 5.4 | Special Products | 330-334 | p 334-335: 1-29, and 31-79 (every other odd) |
| 6.1 | Greatest 'Common Factor And Factoring by Grouping | 366-373 | p 373-379: 1-73, and 75-89 (every other odd) |
| 6.2 | Factoring Trinomials of the Form $x^2+bx+c$ | 375-380 | p 380-381: 1-21, and 23-75 (every other odd) |
| 6.3 | Factoring Trinomials of the Form $ax^2+bx+c$ and Perfect Square polynomials | 381-387 | p 388-389: 1-49, and 51-93 (every other odd) |
| 6.4 | Factoring Trinomials of the Form $ax^2+bx+c$ by Grouping | 390-393 | p 393-394: 1-7 and 9-61 (every other odd) |
| 6.5 | Factoring Binomials | 395-399 | p 400: 1-33 and 35-69 (every other odd) |
| 6.6 | Solving Quadratic Equations By Factoring | 406-412 | p 412-413: 1-43 and 45-93 (every other odd) |
| 6.7 | Quadratic Equations and Problem Solving | 415-419 | p 420-422: 1,3,5,7,13,15,21,25,27,35,37,38, 41,42 |
| 7.1 | Rational Functions & | 432-439 | p 440-442: 1-15 and17-53 (every other odd) |

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|---|---|---|---|
| | Simplifying Rational Expressions | | and 55,56,57,61,62 |
| 7.2 | Multiplying and Dividing Rational Expressions | 443-448 | p 448-449: 1-29 and 31-63 (every other odd) |
| 7.3 | Adding and Subtracting Rational Expressions with Common Denominators | 450-455 | p 455-456: 1-57, 60,61 |
| 7.4 | Adding and Subtracting Rational Expressions with Unlike Denominators | 458-461 | p 461-463: 1-65 |
| 7.5 | Solving Equations Containing Rational Expressions | 465-469 | p 469-470: 1-53 |
| 7.6 | Proportion and Problem Solving with Rational Equations | 472-479 | p 480-482: 1-61 |
| 7.7 | Simplifying Complex Fractions | 484-489 | p 489-490: 1-49 |
| 8.4 | Variation and Problem Solving | 526-531 | p 531-533: 1-49 |
| 10.1 | Radicals and Radical Functions | 577-583 | p 584-585: 1-53, and 55-97 (every other odd) |
| 10.2 | Rational Exponents | 586-591 | p 591-592: 1-97 (every other odd) |
| 10.3 | Simplifying Radical Expressions | 593-599 | p 600-601: 1-93 (every other odd) |
| 10.4 | Adding, Subtracting and Multiplying Radical Expressions | 602-605 | p 605-607: 1-83 (every other odd) |
| 10.5 | Rationalizing Denominators And Problem Solving | 608-612 | p 613: 1-77 (every other odd) |
| 9.1** | Compound Inequalities | 541-546 | p 546-547: 1-72 (every other odd) |

** Optional