

The College of Staten Island  
MTH 035

Course Outline

Description: MTH 035 serves two purposes: to assist and ensure that the homework in a co-requisite MTH 123 course is being done in a timely and accurate manner; and to ensure that the foundational skills of intermediate algebra are fully mastered. It is expected that half of each class will be devoted to each. This syllabus pertains to the intermediate algebra portion of the course.

You should work on your Webassign MTH 123 homework each week, and your instructor may provide supplemental worksheets.

Lesson	Topic
1	Linear and Literal Equations
2	Lines: slope, point-slope, and slope- intercept form
3	Lines: parallel and perpendicular lines, standard form of a line
4	Exponents (integer powers), scientific notation
5	Exponents (rational powers), radical notation
6	Complex number: $i$ , addition, subtraction and multiplication, division
7	Quadratic expression, the quadratic equation
8	Radical expressions and radical equations
9	Rational expressions
10	Rational expression and equations, applications
11	Linear inequalities (one variable), absolute- value inequalities
12	Linear inequalities in two variables
13	Graphing quadratic equations
14	Review for MTH 123 final exam