

College of Staten Island  
MTH 035

Course Outline

Text: Intermediate Algebra 3<sup>rd</sup> edition, Schaum's Outlines. Ray Steege, Kelly Bailey.  
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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.

F14: JV, AR, DM, MT, JCD; S19: RF

Lesson	Description	Assignment
1	Linear and Literal Equations	p129: 4.2 a,c,e,g,i,k p130: 4.7 a,c,e,g
2	Lines: slope, point-slope, and slope-intercept form	p129: 4.3 d,e,f p130: 4.4 a,b,d,e p284: 8.8 a,b,c p284: 8.10 b,c p284: 8.13 a,c
3	Lines: parallel and perpendicular lines, standard form of a line	P284: 8.9 a, b P284: 8.14 a,b P284: 8.15 a,b P284: 8:16 a,b,c,d
4	Exponents (integer powers), scientific notation	P167: 5.1 e,f,g,h P168: 5.2 c,e,g,i,k P168: 5.3 a,c,e P168: 5.4 a,c,e P168: 5.5 a,b,c
5	Exponents (rational powers), radical notation	P168: 5.7 b,d,f P168: 5.8 a,c,e,g,i P169: 5.9 a,c,e P169: 5.10 b,d,f,h P169: 5.11 b,d,f,h P169: 5.12 b,d,f
6	Complex number: i, addition, subtraction and multiplication, division	P170: 5.16 a-r
7	Quadratic expression, the quadratic equation	P210: 6.1 a,c,e,g P211: 6.2 a,c,e P211: 6.3 a,b P211: 6.4 a,c P211: 6.5 a,b,c,d

8	Radical expressions and radical equations	P169: 5.13 a,c,e,g P169: 5.14 a,c,e P169: 5.15 a,c,e,g
9	Rational expressions	P87: 3.1 b,df P87: 3.2 b,df P87: 3.3 a,c,e P87: 3.4 a,c,e,g,i,k P87: 3.5 b,df,h
10	Rational expression and equations, applications	P88: 3.6 b,df,h P88: 3.7 a,b P88: 3.8 a,c,e P88: 3.10 b,df,h P89: 3.11 a,c,e,g,i,k
11	Linear inequalities (one variable), absolute- value inequalities	P131: 4.17 a,c,e,g P132: 4.24 a,c,d,f,g,h P132: 4.25 a,c,e,g,i,k
12	Linear inequalities in two variables	P131: 4.18 a-g P131: 4.19 P131: 4.20 P131: 4.21 P131: 4.22 P131: 4.23
13	Graphing quadratic equations	P212: 6.11 a-h P212: 6.12 a-c P212: 6.13 a,c,e
14	Review for MTH 123 final exam	