

THE COLLEGE OF STATEN ISLAND
DEPARTMENT OF MATHEMATICS

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SR/mg

MTH 121 – Finite Mathematics

REQUIRED TEXT: Mathematical Applications for the Management, Life and Social Sciences, 9th Edition
by Harshbarger and Reynolds, Houghton Mifflin Co. Publishers

REQUIRED CALCULATOR: TI-83

REQUIRED CALCULATOR SUPPLEMENT for TI 82/83 calculators:

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LESSON	TOPIC	SECTION	HOMEWORK ASSIGNMENT
1	Solution of Linear Equations in 1 Variable	1.1	69/1,3,5,7,9,13,15,17,23,25,27
2	Applications of Linear Equations in 1 Variable	1.1	69/41-51 odd
3	Functions	1.2	80/3-5,11,13,25,27,29,31,
4	Operations on and applications of Functions	1.2	81/33, 35, 37 a,b, 38 a,b, 41, 49, 55, 59
5	Linear Functions	1.3	93/1, 3, 7, 9, 10, 11, 12, 13, 14, 19-35 odd, 36, 37, 39
6	Parallel & Perpendicular Lines, Applications Of Linear Functions, Review Graphing Lines	1.3	93/41-51, odd, 57
7	Introduction to using the Calculator	Handout p. 1-14	Handout: 9/3a,b,c;4b,c,d;5; 14/1;2a,b,c;3a,b,h
8	Graphing, Zooming and Tracing on Calculator	Handout p.15-23	Handout: 21/1a,b,c,d;2a,b; Text: 104/1-15 odd
9	Graphs and Graphing Utilities	1.4	105/19,23-31 odd, 39,43,45
10	Solutions of Systems of Linear Functions	1.5	116/1-5,7,9,11,13,15,16,21,23,37,39,47
11	Cost, Revenue & Profit Functions, Breakeven Analysis	1.6	126/1,3,5,9,17,19,21,
12	Supply & Demand Functions, Market Equilibrium	1.6	128/29,,31,33,35,39,41,45,47
13	REVIEW		
14	TEST #1		
15	Quadratic Equations	2.1	148/1,5,9,11,12,15,17,21,23,31,34,37,39,43
16	Quadratic Functions	2.2	158/3,5,6,9,17,21,31,33
17	Business Applications of Quadratic Functions	2.3	167/2,5,9,15,17,21,25,29
18	Special Functions & their Graphs	2.4	179/1-11 odd, 15,17,18,21,37,39,47,53
19	Matrices	3.1	215/1-13, 15, 27,29, 31, 37
20	Multiplication of Matrices	3.2	227/1-15, odd, 30, 37
21	Augmented Matrices, Row Operations, Reduced Form	3.3	242/1,2,3,5,7,; 228/23, 29,43
22	Solving Systems by Gauss-Jordan Elimination	3.3	242/11,13,15,51,52
23	Solving Systems with Nonunique Solutions & Applications	3.3	242/17,19,21,22,25,27,33,41,53
24	REVIEW		

25	TEST #2		
<u>LESSON</u>	TOPIC	SECTION	HOMEWORK ASSIGNMENT
26	Inverses of 2x2 and Diagonal Matrices	3.4	256/1-11, odd, 12, 39-45 odd
27	Inverses of any Square Matrix	3.4	257/13,15,16,17,19
28	Matrix Equations	3.4	257/23-35 odd
29	Leontief Input-Output Open Model	3.5	269/1,3,5, 11-17 odd
30	Leontief Closed Model	3.5	271/29,33,34,35,36
31	Exponential Functions	5.1	366/1,3,5,13,15
32	Application of Exponential Functions	5.1	367/29-35
33	Logarithmic Functions	5.2	379/1-9 odd, 13,15,21,25
34	Logarithm Properties	5.2	380/27-43 odd
35	Change of Base	5.2	379/19,23,47-51,70
36	Solution of Exponential Equations	5.3	391/1,5,9,13,15,23,27,29,31
37	Applications of Exponential & Logarithmic Functions	5.3	392/33-43 odd, 45,46,47
38	REVIEW		
39	TEST #3		
40-42	REVIEW for FINAL EXAM		