

Chapter One: Linear Functions, Equations, and Inequalities

Section	Math0098 (Review)	Math1111 (Items to be Tested)
1.2 Introduction to Relations and Functions	1 - 16	17 - 78
1.3 Linear Functions	13 - 20, 39 - 78	1 - 12, 21 - 38, 79 - 84
1.4 Equations of Lines and Linear Models	1 - 50	51 - 76 Omit Correlation 74 - 76
1.5 Linear Equations and Inequalities	21 - 40, 51 - 60, 83 - 90	5 - 20, 41 - 50, 61 - 82, 93, 94, 107 - 110
1.6 Applications of Linear Functions	1 - 36	37 - 80

Chapter Two: Analysis of Graphs of Functions

Section	Math0098 (Review)	Math1111 (Items to be Tested)
2.1 Graphs of Basic Functions and Relations: Symmetry		1 - 74
2.2 Vertical and Horizontal Shifts of Graphs		1 - 66
2.3 Stretching, Shrinking, and Reflecting Graphs		1 - 24, 27 - 92
2.4 Absolute Value Functions: Graphs, Equations, Inequalities, and Applications	39 - 47	1 - 38, 67 - 76 parts b&c, 77 - 90, 95 - 104 91 - 94 optional
2.5 Piecewise-Defined Functions		1 - 62
2.6 Operations and Composition		1 - 36, 45 - 76

Chapter Three: Polynomial Functions

Section	Math 0098 (Review)	Math1111 (Items to be Tested)
3.2 Quadratic Functions and Graphs	1-16, 54, 55, 56	5 - 16, 17 - 32, 39 - 46, 53, 57 - 67
3.3 Quadratic Equations & Inequalities	13-66, 101-112	13 - 66, 77 - 99 solving analytically is recommended.
3.4 Further Quadratic Applications	1 - 16	7 - 30
3.5 Polynomial Functions and Graphs	1 - 16, 25 - 36, 51 - 73	Sketch the following functions by hand and solve $f(x) = 0$, $f(x) > 0$, $f(x) < 0$, $f(x) \geq 0$, and $f(x) \leq 0$: $f(x) = (x+1)(x-2)(x+3)$ $f(x) = -x^3 + 5x^2 - 6x$ $f(x) = (x+1)(2-x)(x+3)$ $f(x) = (x-1)(2x-5)(x+2)$ $f(x) = x(x+2)(x-5)(x-1)$ $f(x) = -3x(x+2)(x-5)(x-1)$
Supplementary Instructions 3.5		