

MA 111
COURSE OUTLINE
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<u>WEEK</u>	<u>SECTIONS/TOPIC</u>	<u>Problems to be Excluded</u>
1	Intro to Course 1.1, Functions 1.2, Rate of Change 1.3, Linear Functions	Pg. 6: 21,25,28 Pg. 14: 15 Pg. 23: 27,28,29
2	1.4, Formulas 1.5, Geometric Properties 2.1, Input & Output 2.2, Domain & Range	Pg. 30: 24,25,35-37 Pg. 39: 27-29 Pg. 64: 27,28 Pg. 70: 32,34
3	2.3, Piecewise Functions 2.4, Inverse Functions 2.5, Concavity 2.6, Quadratic functions	Pg. 75: 16,18,19 Pg. 79: none Pg. 83: 18 Pg. 89: 22,23
4	TEST 1 3.1, Exponential Functions 3.2, Comparing Functions	Pg. 108: 31,33,34 Pg. 115: 38-40
5	3.3, Exponential Graphs 3.4, Continuous Growth & e 4.1, Logarithms	Pg. 122: 34,36,37 Pg. 130: 5-10, 15-35 Pg. 149: 50-52
6	4.2, Logs and Models 4.3, The Log Function 4.4, Log Scales	Pg. 157: 23,30,39-50 Pg. 165: 13-17,30-35 Pg. 173: 5-7,11,12,16-23
7	5.1, Vertical & Horizontal Shifts 5.2, Reflections & Symmetry 5.3, Vertical Stretches	Pg. 188: 31,37-40 Pg. 197: 37-40 Pg. 204: 25-28
8	5.4, Horizontal Stretches 5.5, Quadratic Functions TEST 2	Pg. 211: 17-23 Pg. 219: 23,26-29
9	6.1, Periodic Functions 6.2, Sin & Cos 6.3, Radians 6.4, graphing Sin & Cos	Pg. 235: 29-32 Pg. 245: 30,36 Pg. 251: 39,42,44 Pg. 256: 28-30
10	6.5, Sinusoidal Functions 6.6, Other Trig Functions	Pg. 264: 39-42 Pg. 271: 13,14,15,19,20,21, 25-36

11	6.7, Inverse Trig Functions Break	Pg. 280: 10-17,28,43-45
12	7.1, Law of Sines & Cosines 7.2, Trig Identities 7.3, Sum & Difference Formulas	Pg. 299: 27,28,32-37 Pg. 307: 6,7,11-37 Pg. 315: all
13	TEST 3 Break	
14	8.1, Composition Functions 8.2, Inverse Functions 8.3, Combination Functions 9.1, Power Functions 9.2, Polynomial Functions	Pg. 347: 10,32-59 Pg. 359: 1-4,27,34, 36-51 Pg. 367: all Pg. 381: 14-21,27-43 Pg. 388: 22,26,27
15	9.3, Short-Run Behavior 9.4, Rational Functions 9.5, Short-run Behavior	Pg. 394: 40-42,45,46 Pg. 400: 12-21 Pg. 406: 13-47
16	9.6, Comparing Functions TEST 4	Pg. 414: all