## MATH 1700 - Calculus II Homework Practice Problems

Section	1	Page	Assigned Problems
6.1	Inverse Functions	390	# 5, 8, 12, 13, 14, 17, 19, 23, 25, 31, 39, 41, 43
6.2	Exponential Functions & Their Derivatives	401	# 8, 9, 25, 27, 33, 35, 41, 43, 55, 58, 59, 65,
			79 - 89 odd, 99
6.3	Logarithmic Functions	409	# 3, 5, 11, 14, 17, 23, 25, 28, 29, 47, 51, 55, 70
6.4	Derivatives of Logarithmic Functions	418	# 3, 7, 9, 11, 17, 27, 43, 47, 49, 57,
			71 -81 odd, 89
6.2*	The Natural Logarithmic Function	428	# 3, 7, 9, 13, 15 - 17, 19, 23, 27, 37, 61,
			65 - 73 odd, 81
6.3*	The Natural Exponential Function	434	# 6, 7, 17, 27, 29, 35, 37, 43, 45, 57, 60, 61,
			67, 81 - 91 odd, 101
6.4*	General Logarithmic & Exponential Functions	444	# 7, 9, 23, 25, 31, 35, 37, 45, 47, 49
6.6	Inverse Trigonometric Functions	459	# 1 - 7 odd, 11, 13, 23, 25, 29, 39, 43, 45,
			59 - 69 odd
6.8	Indeterminate Forms and L'Hospital's Rule	477	# 7, 9, 13, 17, 22, 23, 25, 29, 33, 41, 45, 49,
	·		61, 63, 65
7.1	Integration by Parts	492	# 3 - 9 odd, 17, 27 - 33 odd, 48, 51
7.2	Trigonometric Integrals	500	# 1, 3, 7, 9, 11, 15, 21, 25, 27, 33, 34, 56
7.3	Trigonometric Substitution	507	# 2, 3, 5, 6, 9, 10, 17 - 25 odd
7.4	Integration of Rational Fctns by Partial Fractions	516	# 1 - 19 odd, 23, 31, 39, 43, 45 - 47
7.5	Strategy for Integration	523	# 3, 5, 9, 11, 17, 18, 24, 37, 41, 42, 49, 54,
			58, 59, 74, 75
7.8	Improper Integrals	551	# 1, 5, 9, 11, 15, 20, 21, 25 - 31 odd, 35, 49,
	F - F		52, 54, 55, 57, 63
8.1	Arc Length	567	# 1, 2, 7, 9, 13, 17, 18
8.2	Area of a Surface of Revolution	574	# 1 - 5, 7, 13, 15, 25
11.1	Sequences	724	# 3 - 13 odd, 16, 17, 23 - 45 odd, 71, 74
11.2	Series	735	# 9, 10, 13, 17, 18, 21 - 37 odd, 40, 43, 45,
			57, 61, 62, 73, 87
11.3	The Integral Test & Estimates of Sums	744	# 3 - 7, 11, 15, 17, 19, 23, 27, 29, 31, 37, 46
11.4	The Comparison Tests	750	# 3 - 31 odd
11.5	Alternating Series	755	# 3 - 13 odd, 19, 23, 25, 28, 31
11.6	Absolute Convergence & the Ratio and Root Tests	761	# 2, 3, 5, 7, 8, 9, 11, 12, 13, 16 - 21, 23, 35
11.7	Strategy for Testing Series	765	# 1, 6, 8, 9, 16, 19, 23 - 28, 30, 31, 33, 34, 37
11.8	Power Series	769	# 3 - 9, 11, 13, 15 - 21, 23, 25, 27, 30, 33
11.9	Representations of Functions as Power Series	775	# 3 - 15 odd, 16, 25, 27, 29, 39
11.10	Taylor & Maclaurin Series	789	# 6, 8, 15, 19, 20, 29, 30, 31, 33, 44, 47, 49,
	•		51, 55, 57, 63, 65, 67, 69
11.11	Applications of Taylor Polynomials	798	# 3, 5, 7, 8, 15, 17, 21, 25 - 27
10.1	Curves Defined by Parametric Equations	665	# 1, 2, 3, 5 - 15 odd, 24, 28, 31
10.2	Calculus with Parametric Curves	675	# 1 - 8, 17, 31, 33, 34, 37 - 43 odd
10.3	Polar Coordinates	686	# 1 - 9 odd, 15 - 23 odd, 29, 31, 35, 47, 54
Chapte	er Reviews	Page	Assigned Problems
Ch. 6	Inverse Functions:	481	# 3, 11 - 35 odd, 41, 47, 63, 65, 69 - 77 odd,
011. 0	Exponential, Logarithmic & Inverse Trig Fctns	,01	92 - 103, 115
Ch. 7	Techniques of Integration	554	# 1, 3, 5, 6, 7, 11, 12, 15, 17, 19, 22, 23, 26,
011. 7	reeningues of integration	354	33, 41, 43, 44, 45, 47, 49, 62
Ch. 8	Further Applications of Integration	500	
	Further Applications of Integration	598	#1, 2, 3, 4 #1, 7 odd, 11, 21, 23, 25, 27, 28, 30, 31, 34
Ch. 11	Infinite Sequences and Series	803	# 1 - 7 odd, 11 - 21, 23, 25, 27, 28, 30, 31, 34
Ch 10	Poromotrio Equations and Polor Counting to	710	35, 36, 40 - 45, 47 - 51, 55, 56, 57, 59
Ch. 10	Parametric Equations and Polar Coordinates	710	# 2, 5, 7, 9, 17, 19, 21, 23, 35, 37, 41