Week					Math 1225 Syllabus -	SPRING 2024	
Week 1				Са	lculus: Early Transcendentals, 9th Edition, by	James Stewart, with WebAssign Access	
Value Part	Week		Day	Section	Topic	Textbook	WebAssign (for Reference)
Week 2 3 2 2 The Limit of a Function (limits using numerical approximations, graphs, one-sided limits) 9, 92 # 1, 2, 11, 15, 16 #6, 7, 9 #6, 7, 9 #7, 17, 10 #1, 15, 16 #6, 7, 9 #6, 6, 7, 9 #7, 17, 10 #7, 17, 14, 15, 16 #6, 7, 9 #6, 7, 17, 18, 18, 11, 15, 17, 18, 18 #7, 17, 19, 10 #8, 11, 15, 17, 18, 18 #8, 11, 15, 17, 18, 18 #8, 11, 15, 17, 18, 18, 18, 18, 19, 19, 19, 19, 19, 19, 24, 29, 30, 30, 31, 33, 36, 37, 40, 42a, 51 #31, 37, 40 #1, 2, 53 Find V.A(s) of fix) = (x/2+5x+6)/(x/2+2x-3) #31, 37, 40 #1, 2, 53 Find V.A(s) of fix) = (x/2+5x+6)/(x/2+2x-3) #31, 37, 40 #1, 2, 53 Find V.A(s) of fix) = (x/2+5x+6)/(x/2+2x-3) #31, 37, 40 #1, 2, 53 Find V.A(s) of fix) = (x/2+5x+6)/(x/2+2x-3) #31, 37, 40 #1, 2, 53 Find V.A(s) of fix) = (x/2+5x+6)/(x/2+2x-3) #31, 37, 40 #1, 2, 53 Find V.A(s) of fix) = (x/2+5x+6)/(x/2+2x-3) #31, 37, 40 #1, 2, 53 Find V.A(s) of fix) = (x/2+5x+6)/(x/2+2x-3) #31, 37, 40 #1, 2, 53 Find V.A(s) of fix) = (x/2+5x+6)/(x/2+2x-3) #31, 37, 40 #1, 2, 53 Find V.A(s) of fix) = (x/2+5x+6)/(x/2+2x-3) #31, 37, 40 #1, 2, 53 Find V.A(s) of fix) = (x/2+5x+6)/(x/2+2x-3) #31, 37, 40 #1, 2, 53 Find V.A(s) of fix) = (x/2+5x+6)/(x/2+2x-3) #31, 37, 40 #1, 2, 53 Find V.A(s) of fix) = (x/2+5x+6)/(x/2+2x-3) #31, 37, 40 #1, 2, 53 Find V.A(s) of fix) = (x/2+5x+6)/(x/2+2x-3) #31, 37, 40 #1, 2, 53 Find V.A(s) of fix) = (x/2+5x+6)/(x/2+2x-3) #31, 37, 38, 38, 38, 38, 38, 38, 38, 38, 38, 38	Week 1		1		MLK Day		
Week 2 2 2 The Limit of a Function (Infinite Limits, VA) 0 94 # 3, 30, 31, 33, 36, 37, 40, 42a, 51 Find VA (s) of f(x) = (x²-2+5x+6)/(x²-2+2x-3) # 31, 37, 40		6	2		Introduction to Calculus		
Week 2 1 2.3 Calculating Limits Using the Limit Laws (Limit D. 103 #52, 61, 62, 64 D. 167 TiF #1-3, 69, 11 D. 103 #52, 61, 62, 64 D. 167 TiF #1-3, 69, 11 D. 103 #52, 61, 62, 64 D. 167 TiF #1-3, 69, 11 D. 103 #52, 61, 62, 64 D. 167 TiF #1-3, 69, 11 D. 103 #52, 61, 62, 64 D. 167 TiF #1-3, 69, 11 D. 103 #52, 61, 62, 64 D. 167 TiF #1-3, 69, 11 D. 103 #52, 61, 62, 64 D. 167 TiF #1-3, 69, 11 D. 103 #52, 61, 62, 64 D. 167 TiF #1-3, 69, 11 D. 103 #52, 61, 62, 64, 60 D. 103 #52, 61, 62		an 15-1	3	2.2		p. 92 # 1, 2, 11, 15, 16	#6,7,9
Test 0 1 2.3 Laws, Graphical Limits) 2 2.3 Laws, Graphical Limits) 3 2.3 Calculating Limits Using the Limit Laws (Factoring, Tig, Limits, Rationalizing) Note trig limits can be found in Section 3.3		J	4	2.2	The Limit of a Function (Infinite Limits, VA)		# 31, 37, 40
Variable Calculating Limits Using the Limit Laws D. 103 #10, 16, 19, 29, 31 D. 198 #45, 52, 52, 54, 60 D. 198 #45, 52, 54, 54, 54, 54, 54, 54, 54, 54, 54, 54		Jan 22-26	1	2.3			# 1, 2, 53
Section Sect	Test 0		2	2.3	(Factoring, Trig Limits, Rationalizing)	p.198 #45, 52, 54, 60	2.3: # 2, 13, 15, 23 3.3: # 45, 51, 60
Week 3			3	2.3			# 43, 51, 54
Value Val			4	2.5			# 6, 12, 22
1 2.5 Continuity (Intermediate Value Theorem) 0, 167 T/F #17, 23 #57, 63				w	Test 0 [Sections 2.2, 2.3 (Day 1 & Day 2)]		
1	Week 3	eb 2	1	2.5	Continuity (Intermediate Value Theorem)	p. 167 T/F # 17, 23	# 57, 63
Section Sec			2	2.5			# 45, 48
Week 4 2.6 Limits at Infinity; Horizontal Asympotes p. 107 Tife #12, 13 # 67, 68 # 67, 68 Week 4 1 2.7 Derivatives and Rates of Change p. 149 # 5, 8, 13, 18, 34, 36, 43, 44 # 8, 11, 15, 17, 167 Tife #20 55 <			3	2.6	,	, ,	# 3, 17, 51
1 2.7 Derivatives and Rates of Change D. 149 # 5, 8, 13, 18, 34, 36, 43, 44 # 8, 11, 15, 17, 55 2 2.8 The Derivative as a Function & Review P. 167 T/F # 20, 12 P. 167 T/F # 21, 22 P. 170 # 51 3 3.1 Derivatives of Polynomials and Exponentials D. 181 # 10, 21, 22, 25, 28, 29, 41, 59, 61, 63, 70, 80, 81, 85 P. 269 T/F # 1, 6, 7, 11, 14, 15 51, 56, 70 4 3.2 The Product and Quotient Rules P. 188 # 6, 10, 23, 24, 29, 31, 37, 47, 48, 50, 63 P. 269 T/F # 2, 13 Week 5 Tost 1 M Test 1 [Sections 2.2, 2.3, 2.5, 2.6, 2.7, 2.8] P. 197 # 4, 9, 19, 24, 29, 38, 39 (on [0,2π]), 45, 49, 52, 54, 56, 58, 60 P. 206 # 3, 5, 29, 30, 32, 35, 38, 43 # 6, 7, 13, 22, 4 4 3.4 The Chain Rule D. 200 # 3, 5, 29, 30, 32, 35, 38, 43 # 69, 77, 91 Week 6 To 2 The Chain Rule D. 200 # 3, 5, 29, 30, 32, 35, 38, 43 # 69, 77, 91 Week 7 To 3 The Chain Rule D. 200 # 3, 5, 29, 30, 32, 35, 38, 43 # 69, 77, 91 Week 8 To 2 The Chain Rule D. 200 # 3, 5, 29, 30, 32, 35, 38, 43 # 69, 77, 91 Week 9 To 2 The Chain Rule D. 200 # 65, 67, 71, 80, 83, 92, 93, 98a, b D. 275 # 18, 20 # 69, 77, 91 Week 9 To 2 The Chain Rule D. 200 # 65, 67, 71, 80, 83, 92, 93, 98a, b D. 275 # 18, 20 # 69, 77, 91 Week 9 The Chain Rule D. 201 # 65, 67, 71, 80, 83, 92, 93, 98a, b D. 275 # 18, 20 # 69, 77, 91 Week 9 The Chain Rule D. 201 # 65, 67, 71, 80, 83, 92, 93, 98a, b D. 275 # 18, 20 # 69, 77, 91 Week 9 The Chain Rule D. 201 # 65, 67, 71, 80, 83, 92, 93, 98a, b D. 275 # 18, 20, 20 # 69, 77, 91 Week 9 The Chain Rule D. 201 # 65, 67, 71, 80, 83, 92, 93, 98a, b D. 275 # 18, 20, 20 # 69, 77, 91 The Chain Rule D. 201 # 65, 67, 71, 80, 83, 92, 93, 98a, b D. 275 # 18, 20, 20 # 69, 77, 91 The Chain Rule D. 201 # 65, 67, 71, 80, 83, 92, 93, 98a, b D. 201 # 69, 77, 91 The Chain Rule D. 201 # 65, 67, 71, 80, 83, 92, 93, 98a, b D. 201 # 69, 77, 91 The Chain Rule D. 201 # 69, 7		ا پر	4	2.6	Limits at Infinity; Horizontal Asympotes		# 67, 68
2 2.8 The Derivative as a Function & Review D. 163 # 23, 29, 32, 40, 42, 49, 57, 65 P. 167 T/F # 21, 22 P. 170 # 51 D. 181 # 10, 21, 22, 25, 28, 29, 41, 59, 61, 63, 70, 80, 81, 85 D. 269 T/F # 1, 6, 7, 11, 14, 15 F. 15, 56, 70 P. 188 # 6, 10, 23, 24, 29, 31, 37, 47, 48, 50, 63 P. 269 T/F # 2, 13 P. 224 # 63, 65, 8, 61 P. 224 # 63, 65, 8, 62 P. 275 # 18, 20 P. 224 # 64, 66, 75, 76, 81 P. 224 # 63, 65, 84, 21, 224 # 49, 57, 44, 59, 24, 29, 38, 39, 24, 39, 32, 34, 34, 34, 36 Derivatives of Logarithmic Functions P. 224 # 13, 25, 26, 31, 36, 40, 43, 44 P. 259 T/F # 8, 20, 255 # 44, 10, 31, 36, 40a, 52 F. 31, 36, 40 P. 251 # 18, 25, 26, 30, 32, 43 P. 224 # 49, 57, 44, 59, 54, 56, 58 P. 225 # 44, 10, 31, 36, 40a, 52 F. 31, 36, 40 P. 258 # 4,	Week 4		1	2.7	Derivatives and Rates of Change	p. 149 # 5, 8, 13, 18, 34, 36, 43, 44	# 8, 11, 15, 17, 36, 51 55
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4 4 5 5.10 Elliear Approximations p. 230 # 4, 10, 31, 30, 40a, 32 # 3, 31, 30, 40			2	3.9	Related Rates	p. 251 # 18, 25, 26, 30, 32, 43	# 18, 25, 35, 42, 45
4			3	3.10	Linear Approximations	p. 258 # 4, 10, 31, 36, 40a, 52	# 5, 31, 36, 40
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Spring Break Week 8 1 4.8 Linear Approximations and Newton's Method p. 354 # 3, 11 # 4, 10, 12					Spring Brea	ak	

	11-15	2	4.8	Newton's Method	p. 354 # 5, 15, 31	# 13, 27
	Mar 11.	3	4.1	Maximum and Minimum Values	p. 286 # 10, 11, 28, 34, 41, 51, 82 p. 364 T/F # 1, 2, 3	# 5, 30, 39
		4	4.1	Maximum and Minimum Values	Supplementary Exercises	#57, 59, 63, 73, 74
Week 9		1	M	Test 2 [Sections 3.1-3.6, 3.9, 3.10, 4.8]		
Test 2	r 18-22	2	4.2	The Mean Value Theorem	p. 295 # 3, 10, 13, 14, 23, 25, 41, 42 p. 364 T/F # 4	# 9, 10, 13, 23, 25
		3	4.2	The Mean Value Theorem	p. 296 # 16, 17, 21, 30, 31	# 16, 18, 40
	Mar	4	4.3	What Derivatives Tell Us about the Shape of a Graph (1st Derivative Test/ Increasing & Decreasing)	p. 305 # 8ab, 9, 15, 16	# 5, 15
Week 10		1	4.3	What Derivatives Tell Us about the Shape of a Graph (Concavity/POI)	p. 305 # 7, 20, 33, 34, 36, 45, 88	# 23, 28, 32, 33, 43
	25-29	2	4.5	Summary of Curve Sketching Note: Slant asymptotes are not covered.	p. 327 #11,12, 14	None
	Mar 25	3	4.5/3.7	Summary of Curve Sketching and Rates of Change in the Natural and Social Sciences (Particle Motion only)	p. 327 #34, 44, 48 p. 365 T/F # 5, 6, 7, 8, 9, 10	4.1: # 23, 27 4.5: #24, 55
		4	3.7	Rates of Change in the Natural and Social Sciences (Particle Motion only)	p. 235 # 6, 7, 8, 12 p. 271 # 93	# 1, 5, 7, 8, 9, 10
Week 11		1	4.7	Optimization Problems	p. 342 # 5, 19, 25, 33	# 3, 7, 13, 27
	1-5	2	4.7	Optimization Problems	p. 342 # 40, 41, 54, 60, 71, 78	# 40, 54
	Apr 1-5	3	4.9	Antiderivatives (Rules and Differential Equations)	p. 361 # 1, 6, 9, 10, 12, 13, 16, 19, 20, 21, 22, 26, 40, 52, 54, 55, 57, 59, 60, 65, 68, 72	# 6, 9, 11, 15, 17, 33, 36, 43, 45, 71, 81
		4	5.1	Areas and Distances	p. 381 # 1, 2, 4, 7, 8, 13	# 9, 11
Week 12		1	M	Test 3 [Sections 4.1, 4.2, 4.3, 4.5, 3.7, 4.7]		
Test 3	8-12	2	5.1	Areas and Distances (sigma notation/limits)	p. 383 # 16*, 18*, 22, 23, 24 (*Use left endpoints)	# 15, 19, 22
	Apr 8-	3	5.2	The Definite Integral	p. 394 # 5, 13, 14, 19, 25, 29, 32, 36, 46	# 1, 7, 12, 21
		4	5.2/5.3	The Definite Integral The Fundamental Theorem of Calculus, Part 1	p. 396 # 52, 53, 58, 61, 63, 65, 68, 80 p. 406 # 4, 9, 15, 20	5.2: # 26, 36, 39, 45, 57, 59, 62 5.3: # 3, 9, 13, 15, 17
Week 13	Apr 15-19	1	5.3	The Fundamental Theorem of Calculus, Part 2	p. 406 # 21, 41, 45, 47, 49, 70, 73, 83, 94	# 29, 52, 79, 84
		2	5.4	Indefinite Integrals and the Net Change Theorem	p. 415 # 3, 14, 15, 22, 35, 45, 46, 52, 54, 55, 61, 62, 71, 74	# 10, 13, 15, 22, 59, 64, 69, 72, 76
		3	5.5	The Substitution Rule	p. 425 #10, 22, 35, 42, 46, 54	# 3, 15, 27, 31, 40, 50
		4	5.5	The Substitution Rule	p. 425 # 62, 66, 72, 75, 77, 83, 85, 90, 93	# 61, 65, 68, 73, 87
Week 14	26	1		Review & Catch Up	p. 428 T/F # 1-20	
Test 4	or 22-	W	W	Test 4 [Sections 4.9, 5.1-5.5]		
	Apr	3		Final Exam Review 1		
Week 15	29-May 1	1		Final Exam Review 2		
	Apr 29	2		Final Exam Review 3		
Final Exam		Wed		May 8th 7:45AM - 9:45AM		