

Math 121 - Fall 2025

Syllabus

Date	Section	Topic	#	Homework
August				
25	1.1-1.2	Real Numbers and Graphs	1	11/5, 7, 9,15,23; 20/9,11,15,17
26	1.3-1.4	Functions	2	25/5,9,19,17,23; 33/3,19,23,25
27	1.5-1.6	Inverse and Exponential Functions	3	43/1,3,11,23,29; 52/3,5,17,19,33
29	2.1-2.2	Limits	4	65/3,5,13; 73/1,5,9,17,25
September				
1		Labor Day	No Class	
2	2.3	Limits again	5	78/3,5,9,13,17,19
3	2.4	Continuity	6	87/7,11,35,51,57,67
5	2.5	Computing Limits	7	94/5,7,11,21,29,31
8	2.6	Trig Limits	8	99/7,17,19,23,29,35
9	2.7	Limits at Infinity	9	106/7,9,13,17,21,23,27
10	2.8	I.V.T.	10	110/3,5,7,9,13,15
12	2.9	Formal Definition of Limit	11	117/3,5,7,13,21
15		Review		
16		Test 1		
17	3.1	Definition of Derivative	12	129/3,5,27,33,35,39
19	3.2	Derivative	13	142/7,9,11,15,19,21,23
22	3.2	Derivative	14	142/27,31,37,39,43,45
23	3.3	Product and Quotient Rules	15	151/3,5,9,13,17,25,39
24	3.4	Rates of Change	16	159/3,7,11,21,23,31
26	3.5	Higher Derivatives	17	167/5,9,15,19,21,29
29	3.6	Trig Derivatives	18	172/5,13,19,21,31,39
30	3.7	The Chain Rule	19	178/1,5,9,11,23,29,35,41
October				
1	3.8	Implicit Differentiation	20	187/1,3,5,7,9,13,15,21
3	3.8	Derivatives of Inverse Trig	21	187/29,33,35,37,41
6	3.9	Derivatives of Exponentials	22	196/3,5,7,9,13,17,21,27,41
7	3.9	Derivatives of Hyperbolic Trig	23	197/45,51,57,61,63
8	3.10	Related Rates	24	202/1,3,5,9,15,17,19
10	3.10	Related Rates	25	203/21,27,29,31
13		Review		
14		Test 2		
15	4.1	Linear Approximations	26	218/1,9,11,13,17,45,49
17	4.2	Extreme Values	27	227/29,31,33,37,39,45

20		Fall Break	No Class	
21		Fall Break	No Class	
22	4.3	M.V.T.	28	237/23,25,29,35,37
24	4.4	Graphing	29	243/3,5,13,25,27,39,41,43
27	4.5	l'Hospital's Rule	30	252/1,3,11,15,17,19,33,41
28	4.6	Graphing	31	261/15,17,21,27,29
29	4.7	Applied Max/Min	32	269/3,7,11,19,29,39
31	4.8	Newton's method	33	279/1,3,5,17
November				
3	5.1	Area	34	294/1,5,15,21,29,43,47
4	5.2	The Definite Integral	35	307/5,7,13,15, 27, 33, 37
5	5.3	The Indefinite Integral	36	316/11,17,23,29,33
7	5.4	FTC Part I	37	323/5,7,11,19,25,33,37
10	5.5	FTC Part II	38	330/7,17,29,31,33
11	5.6	Net Change	39	337/1,3,5,7,9,11
12	5.7	Substitution	40	344/7,11,13,27,39,57,65
14	5.8	Transcendental Functions	41	350/13,17,21,27,33,45,55
17		Review		
18		Test 3		
19	6.1	Area	42	362/3,7,13,19,21,23,27,31,35
21	6.2	Volume	43	374/9,11,13,21
24	6.2	Average value	44	375/39,41,43,45
25	6.3	Volume of Rev.	45	382/5,9,13,15,17
26	6.3	Volume of Rev.		
28		Thanksgiving Break	No Class	
December				
1	6.4	Cylindrical Shells	46	390/1,7,15,17,19,21
2	6.5	Work	47	396/1,3,5,7,9
3	6.5	Work	48	396/17,19,21,23,25
5		Review and class party		
8		Reading Day/Math Gala		
9		Math Final		