

MAT 1475 Calculus I **Text:** E. Herman, G. Strang, *Calculus, Volume 1*, openstax.org

	Session	Calculus I	Homework Exercises
1/27	1	2.2 The Limit of a Function (pages 135 – 153)	P. 154: 30-33 all, 35, 38, 42, 46-49 all
1/29	2	2.3 The Limit Laws (pages 160 – 174)	P. 176: 83-105 odd
2/3	3	2.4 Continuity (pages 179 – 188)	P. 191: 131-135 all, 137-147 odd
2/5	4	3.1 Defining the Derivative (pages 213 – 227)	P. 228: 1, 3, 11-17 odd, 21-25 odd
2/10	5	3.2 The Derivative as a Function (pages 232 – 242)	P. 243: 54-58 all, 61, 62
2/19	6	3.3 Differentiation Rules (pages 247 – 260)	P. 263: 106-113 all, 115-117 all
2/24	7	3.4 Derivatives as Rates of Change (pages 266 – 270)	P. 273: 153, 155, 156, 157
2/26	8	First Examination	
3/2	9	3.5 Derivatives of Trigonometric Functions (pages 277 – 284)	P. 285: 175-189 odd
3/4	10	3.6 The Chain Rule (pages 287 – 296)	P. 297: 215-221 odd, 222, 229-237 odd
3/9	11	3.7 Derivatives of Inverse Functions (pages 299 – 305)	P. 306: 265, 267, 279, 280, 281, 283
3/11	12	3.8 Implicit Differentiation (pages 309 – 316)	P. 317: 300-303 all, 309, 311, 315, 319
3/16	13	3.9 Derivatives of Exponential and Logarithmic Functions (pages 319 – 330)	P. 331: 331-333 all, 337, 340, 341, 346-348 all, 351
3/18	14	Midterm Examination	
3/23	15	4.1 Related Rates (pages 341 – 349)	P. 350: 1-9 odd, 10, 17-21 all, 25, 29

3/25	16	4.2 Linear Approximations and Differentials (pages 354 – 363)	P. 364: 62, 63, 65, 67, 68, 69,70, 72, 73, 74, 78, 79, 80
3/30	17	4.3 Maxima and Minima (pages 366-375)	P. 376: 101, 103, 108-113 all, 118, 119, 122, 124, 129, 130
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4/7 (Wednesday schedule)	20	4.6 Limits at Infinity and Asymptotes (pages 407-425)	P. 436: 251, 253, 256, 257-273 odd, 274, 279, 281
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5/6	26	5.1 Approximating Areas (pages 507-522)	P. 523: 2, 12, 14-19 all
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