

Honors/AP Calculus I

Chapter 3

If you're calculating derivatives and the book asks you to check by plotting graphs, ignore this instruction.

Date Assigned	Number	Assignment
	1	Read and take notes on 3.1 p. 191 #1-4, 8-10, 11-14, 18-20, 21-24, 28-30, 31, 32, 34, 38, 39, 41, 42 (find f' , f'' , and the antiderivatives for #1-4, 8-10, 38, 39, 41, 42) Discovery of Derivatives Worksheet
	2	p. 192 #33, 74, 75, 78-81, 83 (do #83 algebraically)
	3	p. 193 #84, 85a, 86a, 90-95 Bonus: 96, 98, 99 Read and take notes on 3.2
	4	p. 197-198 #3, 4, 6-11, 15, 17, 18, 31 Refer to section 1.1 for #31 Begin reading and taking notes on 3.3
	5	p. 197-198 #19-21, 23, 24, 25, 27, 29, 32 Bonus: 26, 28 Finish reading and taking notes on 3.3
	6	p. 206 #1-45 (you may write #1, #16, and #31 together, and so on) study for 3.1-3.2 Quiz Assignments #1-5 due tomorrow
	7	p. 206-207 #46-51, 54, 55, 56, 65
	8	p. 207-208 #66, 70, 72, 75, 78, 83, 94, 98-101 Bonus: 68, 73, 81, 82, 95, 102 Read and take notes on 3.4
	9	p. 213-214 #3-4, 7-8, 11-12, 15, 18, 21
	10	p. 214-215 #24, 27c, 29, 33, 36, 38, 42, 46-50 Bonus: 54, 56, 58, 60, 66
	11	Read and take notes on 3.5 p. 221-222 # 1-2, 4-17, 19, 22, 24, 26-30 Do #1, 2, 4, 5 two ways, do all others only one way

	12	p. 222-224 #33, 35, 36, 38, 41, 43, 50, 51, 63a Bonus: 48, 59, 62, 65, 66 study for 3.3-3.4 Quiz Assignments #6-11 due tomorrow
	13	3.3-3.4 Quiz Chain Rule Class Activity
	14	Read and take notes on 3.6 Do p. 230 #1-11
	15	p. 230 #12-15, 17, 19, 20, 22, 25-30, 32-39, 41
	16	p. 230-231 #44, 46, 49-54, 62, 68-70, 73a, 77, 83 Bonus: 42, 76, 80 Ch. 3 Review Worksheet
	17	Read and take notes on 3.7 p. 236 #1, 2, 3, 6, 8-10 start with #6 if having difficulties with #1-3
	18	p. 236-237 #11-15, 17-20 study for Ch. 3 Test (not including 3.7 or 3.8) Assignments #12-16 due tomorrow
	19	additional 3 problems below Read and take notes on 3.8 p. 245 #1-28
	20	p. 245-246 #29-31, 35, 42-44, 45, 47 Bonus: 38, 40, 53, 54, 61 study for 3.7-3.8 Quiz Assignments #17-20 due

3 Additional Problems for Assignment #19

1. Implicitly differentiate: $\sec^2 x + \csc^2 y = 4$
2. Implicitly differentiate: $x \sin y + y \cos x = 1$
3. Find the equation of the tangent and normal lines to $\sqrt[3]{xy} = 14x + y$ at $(2, -32)$.