

Start each new section on a separate paper. Show work to justify your answers. When asked to graph, include a sketch of the graph on your paper.

Ch. 2 Topics Covered: Using first derivatives to determine increasing, decreasing and extrema, using second derivatives to determine concavity and extrema. Sketching rational and polynomial functions. Finding absolute extrema. Optimization problems; economics, business and general applications. Elasticity of demand, implicit differentiation and related rates.

Section	Problems:	Questions??
2.1	1, 7, 9, 15, 19, 20, 25, 29, 69, 73, 75, 77, 79, 85, 87, 88, 101, 105	
2.2	1, 5, 9, 11, 15, 19, 23, 27, 35, 43, 47, 50, 51, 53, 61, 75, 78	
2.3	1, 5, 11, 13, 17, 21, 25, 31, 37, 45, 49, 51, 57, 59, 60, 61	
2.4	3, 5, 7, 17, 21, 25, 27, 28, 51, 57, 61, 65, 67, 73, 97, 99, 102, 103	
2.5	11, 13, 15, 16, 23, 25, 27, 29, 30, 31, 32, 33, 37, 43, 44, 45, 47, 115	
2.6	1, 3, 5, 7, 17, 19,	
2.7	1, 3, 5, 7, 11, 12, 13, 14	
2.8	1, 3, 5, 7, 9, 11, 15, 17, 23, 25, 29, 33, 35, 37	

Ch.3 Topics Covered: Finding derivatives of Logarithms and exponentials. Applications including; present value, growth & decay.

Section	Problems:	Questions??
3.1	11 - 39 odd, 43, 45, 47, 51, 81, 83, 85, 87	
3.2	1 - 19 odd, 49, 51, 53, 57 - 63 odd, 67, 71, 77, 79, 81, 89, 91, 93, 101, 103,	
3.3	Worksheet	
3.4	24, 25, 26, 27, 29, 30, 31, 45, 47	
3.5	T.B.A.	

Ch.4 Topics Covered: Anti-derivative rules, Definite and Indefinite integrals. Finding area under curves and bounded by curves. Integration techniques.

Section	Problems:	Questions??
4.1	1 - 43 odd, 47, 49, 51, 57, 61, 63, 65, 67, 69	
4.2	1, 3, 5, 9, 17, 25, 27	
4.3	1 - 11 odd, 15, 17, 19, 23, 25, 27, 31, 35, 43, 47, 53, 55, 59, 61, 63	
4.4	7, 11, 13, 15, 17, 21, 27, 35, 37, 39, 47, 53, 55	
4.5	1, 3, 5, 9, 11, 15, 25, 29, 43, 45, 49	
4.7	1, 3, 5, 13, 17, 21, 23, 27	

Ch.5 Topics Covered: Applications of Integration including; Consumers and producers surplus, future value, accumulated present value, capital value. Improper Integrals, differential equations and probability density functions.

Section	Problems:	Questions??
5.1	1, 3, 7, 11, 15, 21	
5.2	1 - 13 odd, 17, 21, 23, 25, 26, 27, 29, 31, 33, 35, 37, 39	
5.3	1, 3, 5, 7, 11, 13, 29, 31, 33, 35	
5.4	25, 26, 27, 31, 32, 35, 36, 37, 39	
5.7	1, 3, 5, 7, 9, 23, 25, 31, 35, 37, 39	

Ch.6 Topics Covered: Functions of several variables. Finding partial derivatives. Determining maximum and minimum values using the D-test. Double Integrals.

Section	Problems:	Questions??
6.1	1, 3, 5, 9, 11, 13, 36, 37, 39, 41	
6.2	1 - 13 odd, 17, 21, 27, 29, 31, 39, 41,	
6.3	1 - 9 odd, 15, 16, 17, 18	
6.6	1 - 15 odd	