

Assign.	Page	Problems**	Type of Problem
*3.1T	193	1-17	Intro to Limits from Tables of Values
*3.1G	193	19-29	Intro to Limits from Graphs
*3.2G	200	1-13	Continuity from Graphs
*3.3F	208	1-49	Continuity from Functions, or Algebraically
3.4T&G	218	1-11	Average Rate of Change from Tables & Graphs
3.4F	219	13-23	Average Rate of Change from Function Notation
3.4A	219	25-33, 43, 44	Average Rate of Change: Applications.
3.5T	238	1-11	Estimating Derivatives Using the Difference Quotient With Tables: (May have to create the table.)
3.5G	238	13-35; 59-64	Understanding & Estimating Derivatives from Graphs
3.5F	240	37-39	Estimating Derivatives Using the Difference Quotient from Functions: (Use a value of $h = 0.0001$ )
3.6Fa	253	1-11; 15-23	Finding Derivatives by the Definition: Using the Limit of the Difference Quotient as $h$ goes to 0.
3.6Fb	254	39-44	Finding the Equation of Tangent Line at a Point (Use the short method for finding $f'(x)$ )
3.6A	254	45, 46	Applications of the Derivative to Instantaneous Velocity (May use short method for finding $f'(x)$ )
3.7Fa	265	1-31; 35-42; 45-52	Derivatives of Constants, Power Forms, and Sums by the Short-Cut: (Direct Method Bypasses Definition)
3.7Fb	266	53-70	Slopes of Tangent Lines, Equations of Tangent Lines; Finding Horizontal Tangents
3.7A	266	93, 95, 99, 100, 101, 103	Applications of Derivatives
3.8F&G	276	1-7	Marginal Analysis from Given Functions or Graph
3.8A	277	9-25	Applications of Marginal Analysis
Ch3R	282	13-33; 41-45	Chapter 3 Review: These problems can be helpful as a <i>part</i> of the review process.
Ch*3R	281	1-11	Chapter *3 Review: These problems can be helpful as a <i>part</i> of the review process for Limit Problems.
4.1F	304	1-67	Derivatives of Products and Quotients
4.1A	305	69,71, 75, 77; 81-84	Applications
4.2F	316	1-41; (43-59)*	Chain Rule: Derivatives of Functions Raised to Powers (*Optional)
4.3F	327	1,5,7-10,15-36,41-49,51-58,65	Derivatives of Logarithmic and Exponential Functions: (Some will require use of the Chain Rule)
4.4F	337	1-21; 31-37; 43-52	Implicit Differentiation
Ch4R	339	1-31	Chapter 4 Review: These problems can be helpful as a <i>part</i> of the review process.
5.1G	361	1-11; 49-55	Determining Maxima & Minima from Graphs
5.1F	361	13-27	Determining Maxima & Minima from Functions with Given Domain
5.2F	370	1-9	Optimizing Functions with Constraints
5.2A	370	11-29; 53,54; 57,58	Applications of Optimization
5.3F	385	1-15	Second Derivatives
5.3Ga	385	17-31	Understanding Inflection Points of $f$ from Graphs of $f$ , $f'$ , & $f''$
5.3Gb	386	33-47	Graphing Functions: Using properties of $f$ , $f'$ , & $f''$
5.3A	386	59-77	Applications of Second Derivatives (79-84--Bonus Questions only)
5.4A	396	1-23	Related Rates
Ch5R	409	1-27	Chapter 5 Review: These problems can be helpful as a <i>part</i> of the review process.
6.1F	428	1-43	The Indefinite Integral
6.1A	428	45-62	Applications of the Indefinite Integral
6.2F	437	1-39	Integration by Substitution
6.3G	452	19-33	Using Graphs to Determine Definite Integrals
6.4F	463	1-13; 17, 19, 21-31	Definite Integrals & The Fundamental Theorem of Calculus
6.4G	464	43-48 (ALL)	Calculating Bounded Areas: (May require Graphing to visualize the problem)
6.4A	464	51-60	Applications of Definite Integrals
Ch6R	467	1-11, 21, 23-35	Chapter 6 Review: These problems can be helpful as a <i>part</i> of the review process.
7.2G	491	1-17	Finding Area Between Two Curves: (May require Graphing to visualize the problem)
8.1F	547	1-9	Functions of Several Variables
8.3F	566	1-11, 19-23	Partial Derivatives
8.5F	585	1-17	Constrained Maxima & Minima; Lagrange Multipliers
8.6F	593	1-15; 37, 39	Double Integrals & Finding Volume
* & **		**Do Odd Problems	*Starred sections will probably be covered later in the semester if there is time. *Starred problems are optional.
CODE	for	ASSIGN #:	R-Review; T-Use Tables; G-Graph or Use Graphs; F-Functional or Algebraic Approach; A-Applications