

Assign.	Page	Problems**	Type of Problem
0.1R	7	1-49	Background Review of Real Numbers: Order of Operations & "Technology Formula"
0.2R	16	1-115	Background Review of Exponents & Radicals: Includes Solving Equations
0.3R1	21	1-21	Background Review of Multiplying Algebraic Expressions
0.3R2	21	23-47	Background Review of Factoring & Solving Equations by Factoring
0.4R	23	1-15	Background Review of Rational Expressions
0.5R	28	1-29	Background Review of Solving Polynomial Equations
0.6R	32	1-25	Background Review of Solving Miscellaneous Equations
1.1R	40	1-15	Background Review of Functions, Numerically and Algebraically
1.2R	51	1, 3	Background Review of Functions, Graphically
1.3R	64	15-69	Background Review of Straight Lines
2.1R	122	1-13	Background Review of Quadratic Functions
2.2R	139	1-17; 25	Background Review of Exponential Functions
2.3R	152	1-11	Background Review of Logarithmic Functions
*3.1T	193	1-17	<b>Intro to Limits from Tables of Values</b>
*3.1G	193	19-29	<b>Intro to Limits from Graphs</b>
*3.2G	200	1-13	<b>Continuity from Graphs</b>
*3.3F	208	1-49	<b>Continuity from Functions, or Algebraically</b>
3.4T&G	218	1-11	<b>Average Rate of Change from Tables &amp; Graphs</b>
3.4F	219	13-23	<b>Average Rate of Change from Function Notation</b>
3.4A	219	25-33, 43, 44	<b>Average Rate of Change: Applications.</b>
3.5T	238	1-11	<b>Estimating Derivatives Using the Difference Quotient With Tables: (May have to create the table.)</b>
3.5G	238	13-35; 59-64	<b>Understanding &amp; Estimating Derivatives from Graphs</b>
3.5F	240	37-39	<b>Estimating Derivatives Using the Difference Quotient from Functions: (Use a value of <math>h = 0.0001</math>)</b>
3.6F	253	1-11; 15-23	<b>Finding Derivatives by the Definition: Using the Limit of the Difference Quotient as <math>h</math> goes to 0.</b>
3.7F	265	1-31; 35-69	<b>Derivatives of Constants, Power Forms, and Sums by the Short-Cut: (Direct Method Bypasses Definition)</b>
3.7A	266	93, 95, 99, 101, 103	<b>Applications of Derivatives</b>
3.8F&G	276	1-7	<b>Marginal Analysis from Given Functions or Graph</b>
3.8A	277	9-25	<b>Applications of Marginal Analysis</b>
Ch3R	282	13-33; 41-45	<b>Chapter 3 Review: These problems can be helpful as a <i>part</i> of the review process.</b>
Ch*3R	281	1-11	<b>Chapter *3 Review: These problems can be helpful as a <i>part</i> of the review process for Limit Problems.</b>
4.1F	304	1-67	<b>Derivatives of Products and Quotients</b>
4.1A	305	69,71, 75, 77; 81-84	<b>Applications</b>
4.2F	316	1-41; (43-59)*	<b>Chain Rule: Derivatives of Functions Raised to Powers (*Optional)</b>
4.3F	327	1, 5, 7-10, 15-36, 41-49, 51-58, 65	<b>Derivatives of Logarithmic and Exponential Functions: (Some will require use of the Chain Rule)</b>
4.4F	337	1-21; 31-37; 43-52	<b>Implicit Differentiation &amp; Logarithmic Differentiation</b>
Ch4R	339	17-24 (ALL)	<b>Chapter 4 Review for MT#2: These problems can be helpful as a <i>part</i> of the review process.</b>
5.1G	361	1-11; 49-55	<b>Determining Maxima &amp; Minima from Graphs</b>
5.1F	361	13-27	<b>Determining Maxima &amp; Minima from Functions with Given Domain</b>
5.2F	370	1-9	<b>Optimizing Functions with Constraints</b>
5.2A	370	11-29; 53,54; 57,58	<b>Applications of Optimization</b>
5.3F	385	1-15	<b>Second Derivatives</b>
5.3Ga	385	17-31	<b>Understanding Inflection Points of <math>f</math> from Graphs of <math>f</math>, <math>f'</math>, &amp; <math>f''</math></b>
5.3Gb	386	33-47	<b>Graphing Functions: Using properties of <math>f</math>, <math>f'</math>, &amp; <math>f''</math></b>
5.3A	386	59-77	<b>Applications of Second Derivatives (79-84--Bonus Questions only)</b>
5.4A	396	1-23	<b>Related Rates</b>
Ch5R	409	1-27	<b>Chapter 5 Review: These problems can be helpful as a <i>part</i> of the review process.</b>
6.1F	428	1-43	<b>The Indefinite Integral</b>
6.1A	428	45-62	<b>Applications of the Indefinite Integral</b>
6.2F	437	1-39	<b>Integration by Substitution</b>
6.3G	452	19-33	<b>Using Graphs to Determine Definite Integrals</b>
6.4F	463	1-13; 17, 19, 21-31	<b>Definite Integrals &amp; The Fundamental Theorem of Calculus</b>
6.4G	464	43-48 (ALL)	<b>Calculating Bounded Areas: (May require Graphing to visualize the problem)</b>
6.4A	464	51-60	<b>Applications of Definite Integrals</b>
Ch6R	467	1-11, 21, 23-35	<b>Chapter 6 Review: These problems can be helpful as a <i>part</i> of the review process.</b>
7.2G	491	1-17	<b>Finding Area Between Two Curves: (May require Graphing to visualize the problem)</b>
8.1F	547	1-9	<b>Functions of Several Variables</b>
8.3F	566	1-11, 19-23	<b>Partial Derivatives</b>
8.5F	585	1-17	<b>Constrained Maxima &amp; Minima; Lagrange Multipliers</b>
8.6F	593	1-15; 37, 39	<b>Double Integrals &amp; Finding Volume</b>
* & **		**Do Odd Problems	*Starred sections will probably be covered later in the semester if there is time. *Starred problems are optional.
CODE	for	ASSIGN #:	<b>R-Review; T-Use Tables; G-Graph or Use Graphs; F-Functional or Algebraic Approach; A-Applications</b>