

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	<b>Average Rate of Change: Applications.</b>
3.5T	238	1-11	<b>Estimating Derivatives Using the Difference Quotient With Tables:</b> (May have to create the table.)
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:</b> (Use a value of $h = 0.0001$ )
3.6F	253	1-11; 15-23	<b>Finding Derivatives by the Definition:</b> Using the Limit of the Difference Quotient as $h$ goes to 0.
3.7F	265	1-31; 35-69	<b>Derivatives of Constants, Power Forms, and Sums by the Short-Cut:</b> (Direct Method Bypasses Definition)
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:</b> These problems can be helpful as a <i>part</i> of the review process.
Ch*3R	281	1-11	<b>Chapter *3 Review:</b> These problems can be helpful as a <i>part</i> of the review process for Limit Problems.
4.1F	304	1-67	<b>Derivatives of Products and Quotients</b>
4.1A	305	69, 71, 75, 77	<b>Applications</b>
4.2F	316	1-41; (43-59)*	<b>Chain Rule:</b> Derivatives of Functions Raised to Powers (*Optional)
4.3F	327	1.5, 7-10, 15-36, 41-49, 51-58, 65	<b>Derivatives of Logarithmic and Exponential Functions:</b> (Some will require use of the Chain Rule)
4.4F	337	1-21; 31-37; 43-52	<b>Implicit Differentiation</b>
Ch4R	339	1-16; 21; 25 - 31	<b>Chapter 4 Review for MT#1:</b> These problems can be helpful as a <i>part</i> of the review process.
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	<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, f',</math> &amp; <math>f''</math></b>
5.3Gb	386	33-47	<b>Graphing Functions:</b> Using properties of $f, f',$ & $f''$
5.3A	386	59-77	<b>Applications of Second Derivatives</b>
5.4A	396	1-23	<b>Related Rates</b>
Ch5R	409	1-27	<b>Chapter 5 Review:</b> These problems can be helpful as a <i>part</i> of the review process.
6.1F	428	1-43	<b>The Indefinite Integral</b>
6.1A	428	45-53	<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	1-33	<b>Definite Integrals &amp; The Fundamental Theorem of Calculus</b>
6.4G	464	43, 45	<b>Calculating Bounded Areas:</b> (May require Graphing to visualize the problem)
6.4A	464	51-57	<b>Applications of Definite Integrals</b>
Ch6R	467	1-11, 21, 23-35	<b>Chapter 6 Review:</b> These problems can be helpful as a <i>part</i> of the review process.
7.2G	491	1-17	<b>Finding Area Between Two Curves:</b> (May require Graphing to visualize the problem)
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.

<b>CODE</b>	<b>for</b>	<b>ASSIGN #:</b>	<b>R-Review; T-Use Tables; G-Graph or Use Graphs; F-Functional or Algebraic Approach; A-Applications</b>
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