

Ch. 1: Functions and Limits

1.4	The Tangent and Velocity Problems
1.5	The Limit of a Function
1.6	Limit Laws
1.8	Continuity

Ch. 2: Derivatives

2.1	Derivatives and Rates of Change
2.2	The Derivative as a Function
2.3	Differentiation Formulas
2.4	Derivatives of Trig Functions
2.5	The Chain Rule
2.6	Implicit Differentiation
2.7	Rates of Change in the Natural and Social Sciences
2.8	Related Rates
2.9	Linear Approximation and Differentiation

Ch. 3: Applications of Differentiation

3.1	Maximum and Minimum Problems
3.2	The Mean Value Theorem
3.3	How Derivatives Affect the Shape of a Graph
3.4	Limits at Infinity: Horizontal Asymptotes
3.5	Summary of Curve Sketching
3.7	Optimization Problems
3.8	Newton's Method
3.9	Antiderivatives
Apx E	Sigma notation

Ch. 4: Integrals

4.1	Areas and Distances
4.2	The Definite Integral
4.3	The Fundamental Theorem of Calculus
4.4	Indefinite Integrals and the Net Change Theorem
4.5	The Substitution Rule

Ch. 5: Applications of Integration

5.1	Areas Between Curves
5.5	Average Value of a Function