Sections 5.1-5.4, 5.6

Definitions	Continuity (5.1.1, 5.1.5) Boundedness of a function (5.3.1) Absolute maximum or minimum (5.3.3) Uniform continuity (5.4.1) Lipschitz function (5.4.4) (Strictly) increasing/decreasing/monotone function (5.6)
Theorems	Sequential criteria for continuity (5.1.3, 5.1.4) Combinations of continuous functions (5.2.1, 5.2.2, 5.2.6, 5.2.7) Boundedness Theorem (5.3.2) Maximum-Minimum Theorem (5.3.4) Intermediate Value Theorem (5.3.7) Theorems 5.3.9, 5.3.10 Nonuniform Continuity Criteria (5.4.2) Uniform Continuity Theorem (5.4.3) Uniform approximation of a continuous function (5.4.10, 5.4.13, 5.4.14) Theorem 5.6.1 and Corollary 5.6.2 Theorem 5.6.4 Continuous Inverse Theorem (5.6.5)
Proofs	Example 5.1.6(h) Composition of continuous functions (5.2.6) Boundedness Theorem (5.3.2) Maximum-Minimum Theorem (5.3.4) Location of Roots Theorem (5.3.5) or via problem 5.3.11 Uniform Continuity Theorem (5.4.3) Theorem 5.6.1 and Corollary 5.6.2

Test Knowledge

Sections 6.1–6.4

Definitions	Derivative of a function (6.1.1) Relative minimum/maximum/extremum (6.2) Taylor polynomial at x_0 (6.4) Convex function (6.4.5)
Theorems	Differentiable function is continuous $(6.1.2)$ Carathéodory's Theorem $(6.5.1)$ Theorems 6.1.3, 6.1.6, 6.1.8 Interior Extremum Theorem $(6.2.1)$ Rolle's Theorem $(6.2.3)$ Mean Value Theorem $(6.2.4)$ Theorem 6.2.5 and Corollary 6.2.6 Theorem 6.2.7 Darboux's Theorem $(6.2.12)$ L'Hospital's Rule O, I, II $(6.3.1, 6.3.3, 6.3.5)$ Cauchy Mean Value Theorem $(6.3.2)$ Taylor's Theorem $(6.4.1)$ Theorem 6.4.6 Newton's Method $(6.4.7)$
Proofs	Differentiable function is continuous (6.1.2) Theorem 6.1.3 Example 6.1.7(e) Interior Extremum Theorem (6.2.1) Rolle's Theorem (6.2.3) Mean Value Theorem (6.2.4) Theorem 6.2.7

Sections 7.1–7.3, 7.5

Definitions	Tagged partititions (7.1) Riemann Integral (7.1.1) Definition 7.2.12 Indefinite integral (7.3.3) Left, Right, Trapezoidal, Midpoint, Simpson approximations (7.5)
Theorems	Theorems 7.1.3, 7.1.5, 7.1.6 Cauchy Criterion (7.2.1) Squeeze Theorem (7.2.3) Theorem 7.2.5 Theorems 7.2.7, 7.2.8 Additivity Theorems (7.2.9, 7.2.13) Fundamental Theorem of Calculus (First Form) (7.3.1) Theorem 7.3.4 Fundamental Theorem of Calculus (Second Form) (7.3.5, 7.3.6) Substitution Theorem (7.3.8) Theorems 7.3.14, 7.3.15, 7.3.16 Integration by Parts (7.3.17) Taylor's Theorem with Remainder (7.3.18) Theorems 7.5.3, 7.5.6, 7.5.8 Error estimates for Trapezoidal, Midpoint, Simpson approximations (7.5.4, 7.5.7, 7.5.9)
Proofs	Example 7.1.4 Theorem 7.2.7 Fundamental Theorem of Calculus (First Form) (7.3.1) Fundamental Theorem of Calculus (Second Form) (7.3.5) Taylor's Theorem with Remainder (7.3.18)