

## Relationship between textbook sections, quizzes and tests

- Section 1.1 (Four Ways to Represent a Function) – see quiz 1, test 1
- Section 1.2 (Mathematical Models: A Catalog of Essential Functions) – see quiz 1, test 1
- Section 1.3 (New Functions from Old Functions) – see quiz 1, test 1
- Section 1.4 (Graphing Calculators and Computers) – not covered this semester
- Section 1.5 (Exponential Functions) – see quiz 2, test 1
- Section 1.6 (Inverse Functions and Logarithms) – see quiz 2, quiz 3, test 1
- Section 2.1 (The Tangent and Velocity Problems) – see quiz 3, test 1
- Section 2.2 (The Limit of a Function) – see quiz 3, test 1
- Section 2.3 (Calculating Limits Using the Limit Laws) – see quiz 3, test 1
- Section 2.4 (The Precise Definition of a Limit) – not covered this semester
- Section 2.5 (Continuity) – see quiz 3, test 1
- Section 2.6 (Limits at Infinity; Horizontal Asymptotes) – see quiz 3, test 1
- Section 2.7 (Derivatives and Rates of Change) – see test 1
- Section 2.8 (The Derivative as a Function) – see test 1
- Section 3.1 (Derivatives of Polynomials and Exponential Functions) – see quiz 4, test 2
- Section 3.2 (The Product and Quotient Rules) – see quiz 4, test 2
- Section 3.3 (Derivatives of Trigonometric Functions) – see quiz 4, test 2
- Section 3.4 (The Chain Rule) – see quiz 5, test 2
- Section 3.5 (Implicit Differentiation) – see quiz 5, test 2
- Section 3.6 (Derivatives of Logarithmic Functions) – see quiz 5, test 2
- Section 3.7 (Rates of Change in the Natural and Social Sciences) – see quiz 6, test 2
- Section 3.8 (Exponential Growth and Decay) – see quiz 6, test 2
- Section 3.9 (Related Rates) – see quiz 6, test 2
- Section 3.10 (Linear Approximation and Differentials) – see quiz 12, test 3
- Section 3.11 (Hyperbolic Functions) – may have appeared on final exam
- Section 4.1 (Maximum and Minimum Values) – see quiz 7, test 2
- Section 4.2 (The Mean Value Theorem) – see quiz 10
- Section 4.3 (How Derivatives Affect the Shape of a Graph) – see quiz 7, test 2
- Section 4.4 (Indeterminate Forms and l'Hospital's Rule) – see quiz 7, test 2
- Section 4.5 (Summary of Curve Sketching) – some topics appear on various quizzes and tests
- Section 4.6 (Graphing with Calculus and Calculators) – not covered this semester
- Section 4.7 (Optimization Problems) – see quiz 7, test 2

- Section 4.8 (Newton's Method) – see quiz 12
- Section 4.9 (Antiderivatives) – see quiz 8, test 3
- Section 5.1 (Areas and Distances) – see quiz 8, test 3
- Section 5.2 (The Definite Integral) – see quiz 8, test 3
- Section 5.3 (The Fundamental Theorem of Calculus) – see quiz 9, test 3
- Section 5.4 (Indefinite Integrals and the Net Change Theorem) – see quiz 9, test 3
- Section 5.5 (The Substitution Rule) – see quiz 10, test 3
- Section 6.1 (Areas between Curves) – see quiz 10, test 3
- Section 6.2 (Volumes) – see quiz 11, test 3
- Section 6.3 (Volumes by Cylindrical Shells) – see quiz 11, test 3
- Section 6.4 (Work) – not covered this semester
- Section 6.5 (Average Value of a Function) – see quiz 11, test 3
- Section 7.1 (Integration by Parts) – appears as a bonus problem on the final exam
- Section 7.2 (Trigonometric Integrals) – for substitution problems see test 3
- Appendix D (Trigonometry) – see quiz 1, test 1