

## Math 151 — Homework Assignments

Section	Exercises	Section	Exercises	Section	Formal HW	Date due:
1-1	5-63 odd	2-8	3-31 odd	4-1	3-69 odd	3-69 odd
1-2	1-21 odd	2-9	3-47 odd	4-2	3-31 odd	3-31 odd
1-3	3-57 odd	3-1	3-61 odd	4-3	3-69 odd	3-69 odd
1-5	1-25 odd	3-2	1-37 odd	4-5	5-65 odd	5-65 odd
1-6	5-75 odd	3-3	1-27 odd	4-7	3-51 odd	3-51 odd
2-1	3-9 odd	3-4	3-43 odd	4-9	5-37 odd	5-37 odd
2-2	3-39 odd	3-5	3-67 odd	4-10	3-65 odd	3-65 odd
2-3	3-57 odd	3-6	3-63 odd			
2-5	3-59 odd	3-7	3-65 odd			
2-6	3-55 odd	3-8	3-51 odd			
2-7	3-27 odd	3-10	3-29 odd			

### Topics List (Math 151)

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| <p>Representing Functions (1-1)</p> <p>Essential Functions (1-2)</p> <p>Transforming and Combining Functions (1-3)</p> <p>Exponential Functions, Inverse Functions, Logarithms (1-5, 1-6)</p> <p>The Tangent and Velocity Problems (2-1)</p> <p>The Limit of a Function (2-2)</p> <p>Calculating Limits; Limit Laws (2-3)</p> <p>Continuity (2-5)</p> <p>Limits at Infinity; Horizontal Asymptotes (2-6)</p> <p>Tangents, Velocities; Rates of Change (2-7)</p> <p>Derivatives (2-8)</p> <p>The Derivative as a Function (2-9)</p> <p>Derivatives of Polynomials and Exponential Functions (3-1)</p> <p>The Product and Quotient Rules (3-2)</p> <p>Rates of Change in the Natural and Social Sciences (3-3)</p> <p>Derivatives of Trigonometric Functions (3-4)</p> <p>The Chain Rule (3-5)</p> | <p>Implicit Differentiation (3-6)</p> <p>Higher Derivatives (3-7)</p> <p>Derivatives of Log Functions (3-8)</p> <p>Related Rates (3-10)</p> <p>Maximum and Minimum Values (4-1)</p> <p>The Mean Value Theorem (4-2)</p> <p>Derivatives and Graphs (4-3)</p> <p>Summary of Curve Sketching (4-5)</p> <p>Optimization Problems (4-7)</p> <p>Newton's Method (4-9)</p> <p>Antiderivatives (4-10)</p> |
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