

Chapter 1: Functions

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| 1.1 | Functions and their representations |
| 1.2 | Linear functions |
| 1.3 | Polynomial functions |
| 1.4 | Rational and piecewise-defined functions |
| 1.5 | Combining and composing functions |
| 1.6 | Inverse functions |
| 1.7 | Exponential functions |
| 1.8 | Logarithmic functions |
| 1.9 | Trigonometric functions |

Chapter 2: Limits and Continuity

- 2.1** Preview to calculus

- 2.2** Average and instantaneous velocity

- 2.3** Limits of a function

- 2.4** Evaluating limits algebraically

- 2.5** Limits at infinity, infinite limits, and asymptotes

- 2.6** Continuity

- 2.7** Formal definition of a limit

Chapter 3: Derivatives

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Appendix: Supplementary Homework Questions

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Appendix: Supplementary Homework Questions

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Appendix: Supplementary Homework Questions

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