# Contents

## Functions

F1: Review of Functions......1F2: Characteristics of Functions......9F3: Compositions of Functions......17

### Limits

L1: Limit of a Function.......27
L2: Limit Laws.......37
L3: Precise Definition of a Limit......47
L4: Continuity.......55

## Derivatives

#### **Differentiation Techniques**

### **Differentiation Applications**

DA1: Related Rates.......DA2: Linear Approximation......DA3: Mean Value Theorem......DA4: Maximum and Minimum Values......DA6: Optimization......

#### Integration

- I1: Area and Distance......193
- I2: Riemann Sums......199

- I6: Indefinite Integrals......229