### Calculus



### **Limits and Continuity**

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Limits	3
Limits of a Function	3
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#### **Derivatives**

**Applications of Derivatives** 

Integrals

**Applications of Integrals** 

**Transcendental Functions** 

**Techniques of Integration** 

**Infinite Sequences and Series** 

**Parametric Equations and Polar Coordinates** 

**Vectors and Vector-Valued Functions** 

**Partial Derivatives** 

**Multiple Integrals** 

**Vector Calculus** 

**Second-Order Differential Equations** 

## **Limits and Continuity**



### **Rates of Change**

• Sources:

**Average Rate of Change** 

0

**Instantaneous Rate of Change** 

### Limits

• Sources:

#### **Limits of a Function**

0

#### **Limit Laws and Theorems**

### Continuity

• Sources:

### **Continuity at a Point**

0

### **Continuous Functions**

0

### **Intermediate Value Theorem**

### **Limits Involving Infinity**

• Sources:

### **Limits at Infinity**

0

### Infinite Limits

## **Derivatives**



## **Applications of Derivatives**



# Integrals



## **Applications of Integrals**



## **Transcendental Functions**



# **Techniques of Integration**



## **Infinite Sequences and Series**



## **Parametric Equations and Polar Coordinates**



### **Vectors and Vector-Valued Functions**



## **Partial Derivatives**



## **Multiple Integrals**



## **Vector Calculus**



## **Second-Order Differential Equations**

