

## Chapter 15

# Partial Derivatives

15.1 Functions of Several Variables

15.2 Limits and Continuity

15.3 Partial Derivatives

15.4 Tangent Planes and Linear Approximations

15.5 The Chain Rule

15.6 Directional Derivatives and the Gradient  
Vector

15.7 Maximum and Minimum Values

15.8 Lagrange Multipliers