

Syllabus, Math 230
Stewart, Essential Calculus, Early Transcendentals, First edition,
Thomson-Brooks/Cole

Class Section Topic

Chapter 10: Vectors and Geometry of Space

- 1 10.1 Three Dimensional Coordinate Systems
- 2 10.2 Vectors
- 3 10.3 The Dot Product
- 4 10.4 The Cross Product
- 5 10.5 Equations of Lines and Planes
- 6 10.5 Equations of Lines and Planes
- 7 10.6 Cylinders and Quadric Surfaces

Chapter 9: Parametric Equations and Polar Coordinates

- 8 9.1, 9.2 Parametric Curves, Calculus with Parametric Curves
- 9 9.2, 9.3 Calculus with Parametric Curves, Polar Coordinates

Chapter 10: Vectors and Geometry of Space

- 10 10.7 Vector Functions and Space Curves
- 11 10.8 Arc Length and Curvature
- 12 Review for Test #1
- 13 10.9 Motion in Space; Velocity and Acceleration

Parametric Surfaces

- 14 12.7 Spherical Coordinates
- 15 13.6 Parametric Surfaces

Chapter 11: Partial Derivatives

- 16 11.1 Functions of Several Variables
- 17 11.2 Limits and Continuity
- 18 11.3 Partial Derivatives
- 19 11.4 Tangent Planes and Linear Approximations
- 20 11.5 The Chain Rule
- 21 Review for Test #2
- 22 11.5 The Chain Rule
- 23 11.6 Directional Derivatives and the Gradient Vector
- 24 11.7 Maximum and Minimum Values
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- 26 11.8 Lagrange Multipliers
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