Exam Review #3
Math 264
Exam date 12/1/2000

Topics Covered: Sections 13.1-13.6, 14.1-14.4

- **Double integrals**
  - Cartesian coordinates.
  - Polar coordinates.
  - Areas.

- **Triple integrals**
  - Cartesian coordinates.
  - Cylindrical coordinates.
  - Spherical coordinates.
  - Volumes

- **Applications**
  - Averages.
  - Moments, center of mass and centroids.

- **Line integrals**
  - Vector fields.
  - Work, flow, circulation and flux.
  - Conservative fields.

- **Green's Theorem**
  - Divergence and curl.

Study Problems
Chapter 13

- p. 1056-1058: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 25, 27, 29, 31a, 35, 37, 39, 41, 43, 45, 49 (practice problems).

- p. 1058-1060: 1, 3, 5, 9, 11, 25 (additional problems).

Chapter 14

- p. 1134-1137: 1, 3, 7, 9, 29, 31, 33, 35, 37, 39, 40, 43, 51, 52, 53 (practice problems).

- p.1137-1139: 1, 3, 9 (additional problems).