# Calculus II

# Review 1 - Examples

#### 20180706

# Textbook (Alternative): Calculus Early Transcendentals 6ed Stewart

#### Lecture 1

- Chapter 14 Partial Derivatives Section 14.1, Example 4, 5, 6.
- Chapter 12 Vectors and The Geometry of Space
  - 1. Section 12.1, Example 1, 2, 3, 4, 6.
  - 2. Section 12.2, Example 1, 3, 4, 5, 6.
  - 3. Section 12.3, Example 1, 2, 3, 4, 6.
  - 4. Section 12.4, Example 1, 2, 3.
  - 5. Section 12.5, Example 1, 3, 4, 6, 7, 8.
- Chapter 10 Parametric Equations and Polar Coordinates Section 10.1, Example 1, 2, 7.

### Lecture 2

- Chapter 13 Vector Functions
  - 1. Section 13,1, Example 1, 6.
  - 2. Section 13.2, Example 1, 3, 5.
  - 3. Section 13.4, Example 1, 2, 3, 4.
  - 4. Section 13.3, Example 1.

#### Lecture 3

- Chapter 14 Partial Derivatives
  - 1. Section 14.1, Example 9, 11, 15.
  - 2. Section 14.2, Example 1, 2, 5, 6, 7, 8.
  - 3. Section 14.3, Example 1, 2, 3, 4, 6.

#### Lecture 4

— Chapter 14 Partial Derivatives

- 1. Section 14.4, Example 1, 2, 4.
- 2. Section 14.5, Example 1, 3, 4, 5.

## Lecture 5

- Chapter 14 Partial Derivatives
  - 1. Section 14.5, Example 8, 9.
  - 2. Section 14.6, Example 2, 3, 4, 5, 6, 8.

## Lecture 6

- Chapter 14 Partial Derivatives
  - 1. Section 14.7, Example 1, 2, 3, 5, 6, 7.
  - 2. Section 14.8, Example 1, 5.