

## Unit Summary: Surfaces and differentiation

### 1. DESCRIPTION

Write a summary of the material covered on the third exam: 15.1-15.4 and 16.4-16.5. The summary should cover enough of

- (1) the theorems, definitions, and problem solving recipes;
- (2) problems chosen from the book (assigned or otherwise), quizzes or lecture;
- (3) connections among the various topics covered on this third exam

so that things make sense to you. See the sample on the assignments page to get a sense of how mine might have looked for the first unit.

### 2. ASSESSMENT

The summary will be graded on a 5 point scale. The grading will line up loosely with Bloom's taxonomy (check it out on wikipedia).

**Remembering** 1/5 points: (1) You've completed the assignment and it's somewhat comprehensive

**Understanding** 2/5 points: (1) You've completed the assignment and it's somewhat comprehensive; (2) theorems, definitions and recipes are described in your own words

**Applying** 3/5 points: (1) You've completed the assignment and it's somewhat comprehensive; (2) theorems, definitions and recipes are described in your own words; (3) the problems are well chosen in that they cover all the big ideas and aren't merely straightforward

**Analyzing** 4/5 points: (1) You've completed the assignment and it's somewhat comprehensive; (2) theorems, definitions and recipes are described in your own words; (3) the problems are well chosen in that they cover all the big ideas and aren't merely straightforward; (4) the connections between the various topics are well described and justified

**Evaluating** 5/5 points: (1) You've completed the assignment and it's somewhat comprehensive; (2) theorems, definitions and recipes are described in your own words; (3) the problems are well chosen in that they cover all the big ideas and aren't merely straightforward; (4) the connections between the various topics are well described and justified; (5) you ask and answer "Why?" questions when appropriate.

I imagine that this will take a couple of handwritten pages and will be due **April 2nd**. Keep a photocopy for yourself to study from.