

**These are the webassign problems that you should either study or skip when preparing for your Test 2. Obviously, you still need to do the homework problems even if you wouldn't be tested on them!**

**2.3:** Problems 1-4 are fine. Problem 5 is okay, but the integration gets a little tricky (see the hw hint). Skip problem 6. Problem 7 is fine; I'd give you the formula for K on a test. Skip problems 8 & 9.

**2.4:** Problem 1 is fine. Don't devote much time to the rest of the problems for a test.

**3.1:** Problems 1-4 are fine. Skip problems 5-8 (problem 5 will be useful for Test 3).

**3.2:** Just focus on problems 5-9. You should also study the Limits worksheet and our problems from class.

**3.3:** Problems 1 and 2 are fine. Skip problem 3 although you should know the derivative of tan. Problems 4 and 5 are fine.

**3.4:** Problems 1 and 2 are fine. For problem 2, try showing the limit DNE. Since the limit DNE it can't be equal to the function at  $f(0,0)$  so it isn't continuous. Skip problems 3 and 4. These are nice concepts, but I'm unlikely to test you on them. Problems 5 and 6 are fine. Problems 7 and 8 are in theory fine, but take too long.

**3.5:** Problems 1 and 2 are fine for practicing finding the gradient which we need for harder problems. From problem 3 you should recognize that  $D_u f = \text{grad } f \cdot u = \|\text{grad } f\| \|u\| \cos(\theta) = \|\text{grad } f\| \cos(\theta)$ . Problems 4-7 are fine. Skip problem 8. Problem 9 is okay. Skip problem 10. Problems 11-17 are okay. For problems 14 and 17 to appear on a test they would have to be adjusted so they don't take so long.

**3.6:** Problems 1-5 are fine. Problems 6 and 7 are okay, but are computationally difficult.