

These are the webassign problems to study or skip for your Test 4. Obviously, you still need to do the homework problems even if you wouldn't be tested on them! The act of doing harder problems can help build your understanding of the material.

6.1: Problems 1 and 2 are fine. Skip problems 3 and 4. Problem 5 is fine, but too long. You should be able to find a gradient vector field. Problem 6 is fine. Skip problem 7.

6.2: Problems 1 and 2 are ok. Problem 3 is something you should do but as part of a larger problem. Problem 4 is ok, but probably tedious. Problem 5 is good. Problem 6 finding the mass is fine; I probably wouldn't ask for center of mass for a wire. Skip problem 7.

6.3: Problem 1 is okay; you should know that if we are going in the same direction as the force field the line integral will be positive. Problems 2 and 3 look fine. Problem 4 is fine if you find the curl first and realize you are doing the circulation of a conservative vector field.. Problem 5 is okay, but not as likely to be asked. Problems 6 and 7 are fine. Problem 8 is kind of fun if you recognize to just use the Fundamental thm.

6.4: All the problems are ok.

6.5: Problems 1 would be fine as part of a larger problem. Problems 2-5 are fine. Skip problem 6. Problems 7 and 8 cover material on the final but not the 4th test. Skip problem 9.