

**EXAM #2 INFORMATION– MATH 1260**  
**FALL 2014**

EXAM ON 11/25/14

There will be 4 pages of questions.

- (a) The first page will contain about 6-10 short answer questions (true or false/fill in the blank/quickly compute/etc). I could certainly ask you about concepts like open regions, closed regions, compact regions, continuous functions etc. I can ask you to state Green's Theorem, the Divergence Theorem, the fundamental theorem on line integrals, the Heine Borel theorem etc. I could ask you to setup an integral to compute surface area or the mass of some wire. I could ask you to compute div of a vector field or whether a given vector field is the gradient of something. I could also ask you how to setup a lagrange multiplier problem. None of these would require any substantial computations.
- (b) There will be a page with on line integrals (possibly involving Green's Theorem or Stoke's Theorem). I could also ask about work done.
- (c) There will be a page on flux/surface integrals (possibly involving the divergence Theorem or Stoke's Theorem) of a computational nature (like the homework or worksheet).
- (d) There will be a page on setting up (and possibly evaluating) triple integrals.
- (e) There will an extra credit problem based on the newer material (out of Spivak).