Math 221   **Final Exam (Part II) Information**

- `Where/When is the final exam?` The final exam is scheduled as:

Date	Time	Place
M 05/06/14, Tuesday	1:00pm-3:00pm	BLOC 121

- You do not need a scantron for this exam.

- Things to bring to the test: pencil, eraser and your student identification card.

- `Office Hours` during dead week: Wednesday, 04/30, 11:00am-2:00pm.

- It is `advised` that you Read over the Lecture Notes and Week in Review Sets. Rework quizzes. For topics you are struggling with, rework the associated suggested homework problems.

- For extra practice I would recommend the following problems from the textbook:

  page 790 # 21,22,61−64, 67,68

  page 939 # 33, 34a,c, 35−43.

- Due to privacy issues, I cannot discuss grades over email or phone. Thus I will not reply to any e-mails asking about exam scores. If you would like to look your final exam, I can meet with you at the start of the Summer/Fall semester. For this send me an e-mail requesting an appointment and I would be happy to meet with you then.

Topics to know for Final Exam Part II

I would recommend to review all methods and concepts focusing on the topics below:

- Limit and continuity of a function of two variables. (section 12.2)

- Local and absolute maximum and minimum values, Second Derivatives Test, Extreme Value Theorem for function of two variables. (section 12.7)

- Lagrange multipliers (section 12.8)

- Parametric surface and normal vector to it, tangent plane. (section 14.6)

- Surface area of a parametric surface and surface area of a graph $z = f(x, y)$.(section 14.6)

- Surface integral of a scalar function.(section 14.7)

- Surface integral of a vector field.(section 14.7)

- Stokes' Theorem(section 14.8)[1]

- The Divergence Theorem (section 14.9)[2]

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[1]be able to verify Stokes' Theorem for given vector field and surface.
[2]be able to verify the Divergence Theorem for given vector field and solid.