

Math 20550-02
Spring, 2012

Assignment 13, due April 27, 2012

Reread Section 16.5. Reread Sections 16.7-16.9.

Do:

Section 16.5 #15,17,19,21,22,27,28

Section 16.7 #10,13,19,23,25,29

Section 16.8 # 1,3,9,11a,13,15,19

On this assignment, evaluate all integrals in sections 16.5 and 16.8 by hand. Do NOT use a computer or calculator to evaluate the integrals. On problems from section 16.7 **only** you may use MATLAB, Maple, Mathematica or a calculator to calculate integrals symbolically. If you do, include a printout or explain that that is where the answer came from. Your answer must be exact.

Read Line Integrals Around Closed Curves Green's Theorem. Do Problems 1–3.