

MATH 445 ASSIGNMENT 2
Fall 2009
Prof. Alexander

Due Friday September 11.

Kreyszig:

Section 10.5 p. 448 #5, 7, 15 (find unit normal only, for #15)

Section 10.6 p. 456 #2, 9

Section 10.7 p. 463 #17, 20

Section 10.8 p. 468 #1

Some of the above problems are about surface integrals and the Divergence Theorem. You may find it worthwhile to review line integrals and Green's Theorem first. Some suggested exercises (not part of the homework to turn in):

Section 10.1 p. 425 #1, 4

Section 10.4 p. 444 #1, 3, 13