About this assignment: This is the final written homework assignment of the semester. (There is no companion online assignment; WA 13 is the last WebAssign assignment.)

This assignment covers Stokes’ Theorem (Section 16.8) and some problems from the Review Section of Chapter 16 (p. 1137–1138) covering conservative fields, potentials, the Fundamental Theorem for Line Integrals.

The WebAssign scores will be incorporated into the other scores, so that there are a total of 27 HW assignments (14 regular homework sets and 13 WebAssign homework sets). Once this assignment has been graded, the two lowest of these 27 homework scores will be dropped.

HW 14 Problems

1. 16.8:1 (Application of Stokes’ theorem: “Surface independence” property)
2. 16.8:5 (Computing surface integrals via Stokes)
3. 16.8:15 (Verifying Stokes’ theorem, i.e., computing directly each side of the theorem)
4. 16.8:16 (Application of Stokes’ theorem.)
5. 16.R:10 (Computing work integral)
6. 16.R:12 (Conservative fields and potentials)
7. 16.R:37 (Computing line integral)
8. 16.R:39 (Computing surface integral)