

18.02 Problem Set 12 Spring 2006

Due Thursday May 11, 12:55 pm

Part A (5 points)

Hand in the underlined problems only; the others are for more practice.

Lecture 33. Thu May 4 Stokes' theorem.

Read: 21.5, Notes V13 Work: 6F/ 1a, 2, 3, 5.

Lecture 34. Fri May 5 Understanding curl. Review.

Read: 21.5, Notes V4.3, V13 Work: Practice Exams and 21.5, pp. 783–784.

Lecture 35. Tue May 9. Exam 4 covering lectures 28–34 and triple integrals (lectures 20–21).

If there is a probability question on Exam 4, it will only ask for the ratio of two integrals, the part to the whole, or an average value. There will be no questions about conditional probability.

Lecture 36. Thur May 11 Topological issues

Read: Notes V6, V7, V14. Work: 6G/ 1; 6H/ 1, 2.

Lectures 37–39. May 12–18. Conservation laws; Maxwell's equations. Course review

Read: 21.6, Notes V15.

There is no Part B.