Read Sections 5.1-5.3 in Taylor-Mann, but don’t worry about the assertion, at the end of 5.1, that no open rectangle is the union of two nonempty disjoint subsets. Then do the following exercises.

5.1: 3, 4, 5. You must give some explanation for your answers; this may take the form of a picture if appropriate.

5.2: 2, 3, 4c, 7, 12. It may be helpful for you to use polar coordinates in problem 12.

5.3: 1, 3, 8.

This assignment is due Friday, October 6.