

A. Due at the start of class on Day 18 (but not collected): Complete these exercises, just to practice basic skills. If you want more practice, then do more problems from the book.

Section 15.3 Exercises 5, 13, 23, 31

Section 15.4 Exercises 11, 12, 23

B. Due at the start of class on Day 20, as part of your weekly homework packet: Submit polished solutions, including all necessary work and no unnecessary work, in the order assigned.

1. Section 15.3 Exercise 16

2. Section 15.4 Exercise 22

3. Compute $\iint_{\mathbb{R}^2} (1 + x^2 + y^2)^{-2} dA$, where \mathbb{R}^2 denotes the entire x - y -plane. [Hint: Use polar coordinates, and notice that the integral is improper.]