

## Study Guide for Exam 2

1. You should be able to compute  $L(P, f)$  and  $U(P, f)$  for a given partition  $P$  and a given function  $f$ .
2. You should be able to prove Theorems 6, 8, 9, and 13 in the Chapter 6 course notes.
3. You should be able to prove Corollary 15 (both parts) in the Chapter 6 course notes.
4. You should be able to prove Theorem 16 in the Chapter 6 course notes. The theorem is the same as Exercise 5(a) in Section 5.3 of the text.
5. You should be able to give a proof for Exercises 3 and 5 in section 6.1 of the text.
6. You should be able to give a proof for Exercises 7 and 10(a) in section 6.2 of the text.