

Homework 7 for M312, Section 30353
due Wednesday, October 16, 2013

1. (10 pts) Exercise 6.2.23 (p. 328).
2. (10 pts) Exercise 6.2.24 (p. 328).
3. (10 pts) Exercise 6.2.26 (p. 328).
4. (10 pts) Exercise 6.2.27 (p. 328).
5. (10 pts) Exercise 6.3.6 (p. 337).
6. (10 pts) Exercise 6.3.7 (p. 337).
7. (10 pts) Exercise 6.3.11 (p. 337).
8. (10 pts) Exercise 6.3.13 (p. 338).
9. (10 pts) Exercise 6.3.16 (p. 338).
10. (10 pts) Exercise 6.3.17 (p. 338).
10. (extra credit, 20 pts) How many bounded regions are cut from the plane by the curve

$$(1 + \sin t + \cos t)(\cos t, \sin t), \quad 0 \leq t \leq 2\pi?$$

Find their areas.