## Homework 1 for M312, Section 30353 due Wednesday, September 4, 2013

- 1. Exercise 4.1.12 (p. 227)
- **2.** Exercise 4.1.13 (p. 227)
- **3.** Exercise 4.1.15 (p. 227)
- **4.** Exercise 4.1.24 (p. 227)
- **5.** Exercise 4.2.3 (p. 234)
- **6.** Exercise 4.2.5 (p. 234)
- **7.** Exercise 4.2.7 (p. 234)
- **8.** Exercise 4.2.8 (p. 234)
- **9.** Compute the length of the hypocycloid  $\mathbf{c}(t) = (\sin^3 t, \cos^3 t), 0 \le t \le 2\pi$ .
- **10.** Exercise 4.2.16 (p.235)