

**Section 5.1:** Exercises 3(b,c,e,f), 6(b), 9, 13, 16, 17. Hints and remarks:

- in Exercise 3 you are *not* allowed to use derivatives, l'Hospital's rule, etc.; in part (c) you may use that  $(a + b)(a - b) = a^2 - b^2$ ;
- in Exercise 9, you may use the definition or Theorem 5.1.10;
- there is a useful hint in the book for Exercise 13.

**Section 5.2:** Exercises 6(c,d,e,f,g,h), 7, 9, 10, 13. Hints and remarks:

- in parts (c)–(h) of Exercise 6, the statements are false;
- to understand the question in Exercise 7, first think about what a “sequence” means.

**Food for Thought:**

- Sec. 5.1, exercises 1, 2, 11, 20.
- Sec. 5.2, exercises 1, 2, 3, 5 (recall Exercise 5.1/17).