exercise 1:
section 5.1: 3 - Sketch R and the points where the function is sampled, then answer the question.

exercise 2:
section 5.1: 13, 14, 17: compute each integral in one order and then the other.

exercise 3:
section 5.2: 74, 75.

exercise 4:
section 5.2: 78, 79.

exercise 5:
section 5.2: 80, 82.