

**I. Reading:**

- Read do Carmo, Section 3-4 (pages 175–185).
- Read do Carmo, Section 4-4 (pages 238–260).

**II. Practice problems:**

1. do Carmo, Section 4-2 (pp. 227–231), #1, 9.
2. do Carmo, Section 4-3 (p. 237), #4, 8.

**III. Required problems:**

1. do Carmo, Section 4-2 (pp. 227–231), #2.
2. do Carmo, Section 4-2 (pp. 227–231), #3.
3. do Carmo, Section 4-2 (pp. 227–231), #7.
4. do Carmo, Section 4-2 (pp. 227–231), #10.
5. do Carmo, Section 4-2 (pp. 227–231), #11. (*Instead of a distance-preserving map, assume that  $F$  is a rigid motion. Ignore the reference to Exercise 8.*)
6. do Carmo, Section 4-2 (pp. 227–231), #12.
7. do Carmo, Section 4-3 (p. 237), #1.
8. do Carmo, Section 4-3 (p. 237), #3.
9. do Carmo, Section 4-3 (p. 237), #9.