Math 525a - Fall 17 - Homework 2

1. Problems 8(a) and 9(a) in section 1.3 of the text.

2. Parts (a) and (c) of problem 11 in section 1.3 of the text.

3. Problem 12 in section 1.3 of the text.

4. Problem 16(a) in section 1.3 of the text.

5. Parts (c), (g) and (h) of problem 20 in section 1.3 of the text.

6. Let S be a subset of the reals such that every open cover admits a finite subcover. Prove that S is bounded above and below.