

Homework #6 (Due September 5).

• Read pp. 14-23 in the textbook.

• There will be a quiz on Wednesday
(see hwk #5 for which definitions you need to know).

Do the following problems:

1. State the lemma similar to Lemma 1.3.8, but for $\inf A$ instead of $\sup A$.

2. Use the lemma in #1 to prove that for any two sets A and B in \mathbb{R} bounded from below
$$\inf(A+B) = \inf(A) + \inf(B).$$

3. Do problems 1.3.3 and 1.3.7. from the textbook.

4. Graduate student problem: 1.3.9 from the textbook.