

Math 131A Lecture 6: Homework 2, Due 4/15 in TA session

1-4: Section 4: 4.7, 4.8, 4.12, 4.14.

5: Show that $\inf S = -\sup(-S)$ for any nonempty subset of \mathbb{R} , including the case where the infimum of S is either ∞ or $-\infty$. Note that in class we only proved this statement when S was bounded.

6: Section 7: 7.4

7-9: Section 8: 8.4, 8.9, 8.10