

Assignment #4: Due Wednesday, 10/28/09

Part II:

Addition to the handout: The following two theorems should have been included on the *Real Numbers and Integers* handout, right after 7(b):

7(b') If $a > 0$, then $a^{-1} > 0$.

7(b'') If $a < 0$, then $a^{-1} < 0$.

(If you wish, you can use these results in the proofs of any theorems that come later than 7(b), such as the ones assigned in Part I of this assignment.)

2. Write a two-column proof of each of the following theorems.

- Theorem 7(b') above.
- Theorem 7(r) from the handout.
- Theorem 7(s) from the handout.