Do the following problems from [SHE]:

- P. 51, Review exercises, \#13, 15, 17, 18, 19, 20, 21, 22.

Prove the following statements from the handout The Real Numbers and the Integers. Justify each step by citing either an axiom, a definition, or a previous theorem. Try to organize your proof so that each step requires only one such justification.

- Theorem 2(b). [Hint: Try starting with the statement $(-a)+(-(-a))=0$.]
- Theorem 2(e). [Hint: Try starting with $(-1+1) a=(-1) a+(1) a$.]
- Theorem 3(d).
- Theorem 7(a).
- Theorem 7(b).

