Universal Rule for all homework: Unless otherwise stated, all solutions must include a brief proof that they are correct. For problems that involve following a procedure we have discussed in class, showing the steps you took and giving an indication of what was done at each step (for example writing that "State $q_3$ was removed to obtain the following equivalent super-NFA.") suffices to satisfy the rule.

Section 5.1: 3, 4, 9bd, 12e, 15
Section 5.2: 8, 9, 13