1. Exercise 4.1.1 on page 236.

2. Exercise 4.3.12 on page 248. Part (a) only.

3. Exercise 4.3.15 on page 254.

4. Exercise 4.3.16 on page 254.

5. Prove that Algorithm TC is sound with respect to typing derivations. That is, provide a proof for the lemma stated in class.