1. For each of the following regular expressions answer the following questions:
   i. $\{a, b\}^*a\{a, b\}^*b\{a, b\}^*$.
   ii. $(\lambda \cup aa)b^*$.

Questions:
   (a) Give two strings in the language represented by the regular expression.
   (b) Give two strings not in the language represented by the regular expression.
   (c) Describe in English the language represented by the regular expression.

2. Using the method of Lemma 2.41 from Chapter 2, give an NFA to recognize the language represented by regular expression $(aba)(a \cup bb)^*$.

3. Chapter 2, Nos. 12, 14, 13 parts ii, iv, vii.