Theory of Computation
Homework 3.
Due Date: Thursday, September 21.

1. Question 1.1 from Sipser's text, but for the following two machines (a solution is given in the text for the question there).

2. Question 1.6 (2nd edition of Sipser's text) or 1.4 (1st edition), parts a,c,d,e,f,i,k,m,n.

3. The following language over the alphabet \{a,b\} is the complement of a simpler language. Construct a DFA for the simpler language, and use it to give a DFA for the following language itself:

\[ \{w \mid w \text{ is any string that does not contain exactly two } a's\} \]