Prework 1.2b: Simulating an NFA on a DFA
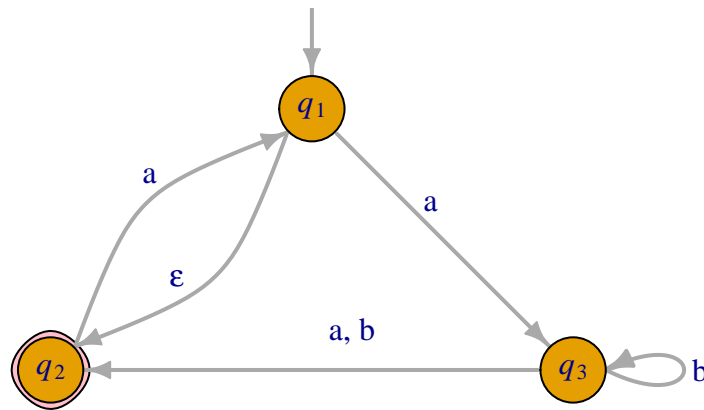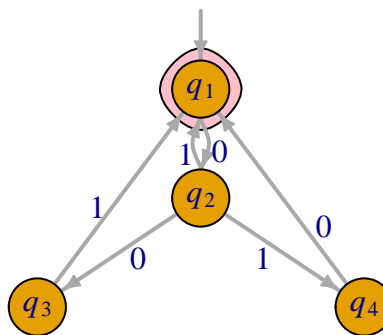
Write your preliminary solutions to each problem on this sheet of paper (front and back). The names in brackets indicate the subset responsible for presenting the problem.

1. [Micah, Grace, Andrew, Ben] Apply the construction of an NFA simulator (Theorem 1.39) to obtain a DFA that is equivalent to the following NFA.

2. [Connor, Meghan, Curtis, Allie] Determine the language recognized by the following NFA, and express your answer using the $*$ notation.

3. [Joshua, Ky, Todd, Levi, David] Apply the construction of an NFA simulator (Theorem 1.39) to obtain a DFA that is equivalent to the NFA given in Problem 2. Simplify if possible.

————————————————————BEGIN YOUR SOLUTIONS BELOW THIS LINE————————————————————