Name:_____ Grade:_____<-- (10 possible)

1. State Kleene's Theorem:

2. On the back, draw the machines for the various cases of regExpToFSM

3. In the DFSMtoRegExp example machine M, show how to get

   r_{221}

   r_{132}

   r_{123}

   r_{133}

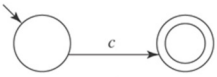
   A regular expression r such that L(R) = L(M)

4. Given a DFSM M that accepts a language L, how do we construct a FSM M' such that L(M') = L^R?

5. Tell your instructor about anything from today's session (or from the course so far) that you found confusing or still have a question about. If none, please write "None".

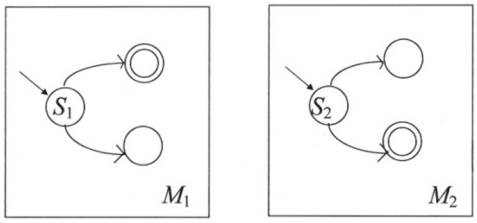
∅:

A single element of Σ:



ε (∅*):

Union:



Concatenation:

Kleene star: