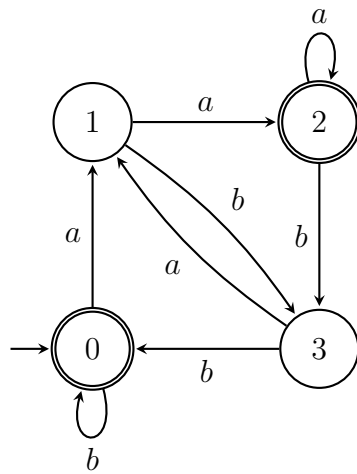# Applied Algebra

Instructions   Please write your name in the upper right-hand corner of the page. Use complete sentences, along with any necessary supporting calculations, to answer the following questions.

1. Determine the input sequences that the following four-state automaton accepts. Notice that both the initial state 0 and the state 2 are acceptance states.

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2. Construct a four-state automaton that accepts the input sequences of letters a and b ending abb (and does not accept any other input sequences).