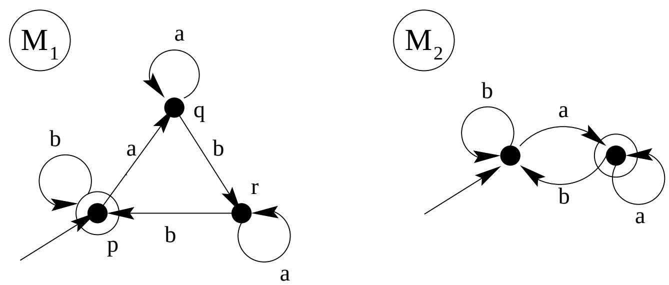
CS 381	**Introduction to Theory of Computing**	QUIZ 4
SUMMER 2000		MAY 31, 2000

Write your name in the space below. Failing to do so may result in not recording the points you earn for this quiz.

1. Give the diagram of a DFA M with $\Sigma = \{a, b\}$, s.t. $L(M) = \{\varepsilon\}$.

2. (4 points) Consider the automata below:



(a) Derive formally the DFA M_3 s.t. $L(M_3) = L(M_1) \cap L(M_2)$;

(b) Give M_3's diagram.