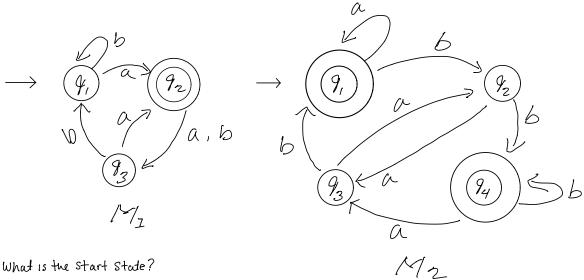
1.1) The following are the state diagrams of two DFAs, M. and Mr. Answer the following questions about each of these machines.



a.) What is the Start State?

b.) What is the set of accept states?

Mr - 9, and 94, same reason as

() What sequence of stutes does the machine go through on input aabb

$$M_{2} = q_{1} \xrightarrow{\alpha} g_{2} \xrightarrow{\alpha} g_{3} \xrightarrow{b} q_{1} \xrightarrow{b} g_{1}$$

$$M_{2} = q_{1} \xrightarrow{\alpha} g_{1} \xrightarrow{\alpha} g_{1} \xrightarrow{b} g_{2} \xrightarrow{b} g_{2}$$

- d) Does the machine accept the String aabb
- M_I = 9, -> 92 -> 93, 9,

 9, 15 not an accept state,
 therefore, M, does not accept
 the string a abb
- Mr=91,91,91,92,94
 94 is an accept stude,
 therefore, Mr does accept
 the String aabb
- e.) Does tue machine accept the String E?
 - M,=No because 9, 15 not con accept state.
 - Mr = Yes because 9, 18 am accept state.