Theory of Computation

1. Prove that the language $\{a^m b : m \geq 1 \; and \; m \neq 100\}$ is regular.

2. Find regular expression for the following language

$$L = \{\, w \in \{a, b\}^* : w \ does \ not \ end \ with \ ab \,\}$$

*3. Find regular expression for the following DFA.   (Homework 3)