

Ex. 1 _____

Let $\Sigma = \{a, b, c\}$. Give deterministic complete finite state automata recognizing each of the following languages:

1. The set of words whose length is even.
2. The set of words where the number of occurrences of b is divisible by 3.
3. The set of words ending with b .
4. The set of words not ending with b .
5. The set of non empty words not ending with b .
6. The set of words containing at least a b .
7. The set of words containing at most a b .
8. The set of words containing exactly a b .