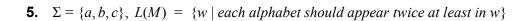
Draw a finite automata for each of the following languages

1.
$$\Sigma = \{a, b, c\}, L(M) = \{w \mid w = wR \ (w \text{ is the same as the reverse of } w)\}$$

2.
$$\Sigma = \{a, b, c\}, L(M) = \{w \mid w \ can't \ have a substring xy where $x = y\}$$$

3.
$$\Sigma = \{a, b, c\}, L(M) = \{w \mid 5 \Rightarrow |w|\}$$

4.
$$\Sigma = \{a, b, c\}, L(M) = \{w \mid each alphabet should appear twice at most in w\}$$



6.
$$\Sigma = \{a, b, c\}, L(M) = \{w \mid each alphabet should appear exactly once in w\}$$

7.
$$\Sigma = \{a, b, c\}, L(M) = \{w \mid each \ alphabet \ x_i \ where \ i \in \{1, 5, 10, 15, 20, ...\} \ must \ be 'a'\}$$

8.
$$\Sigma = \{a, b, c\}, L(M) = \{w \mid each \ alphabet \ x_i \ where \ i \in \{1, 5, 10, 15, 20\} \ must \ be 'a' \ or 'b'\}$$