Give a RE (regexp) and an NFA for each language below.

1. $L_1 = \{s \in \{0,1\}^* : s$ contains at least 2 characters and s's second character is a $1\}$

2. $L_2 = \{s \in \{0,1\}^* : s$ contains fewer than 2 characters $\}$

3. $L_3 = \{s \in \{a,b\}^* :$ every a in s is eventually followed by $b\}$

4. $L_4 = \{s \in \{a,b\}^* :$ the third-last character of s is a $b\}$

5. $L_5 = \{s \in \{a,b\}^* : s$ contains some substring of length 4 whose first and last characters are the same $\}$