$$\Sigma = \{1, 0\}$$
 
$$L = \{b \in \Sigma^* : b \text{ ends with } 1\}$$
 Regular expression:  $(0|1)^*1$ 

$$\Sigma = \{a, b\}$$

$$L = \{s \in \Sigma^* : s \text{ contains substring '} aba'\}$$
Regular expression:  $(a|b)^*aba(a|b)^*$ 

$$\Sigma = \{3, 7, 6\}$$

 $L = \{ s \in \Sigma^* : s \text{ is a string of length } 3 \}$ 

Regular expression: (3|7|6)(3|7|6)(3|7|6)

$$\Sigma = \{0, 1\}$$

 $\Sigma = \{0, 1\}$   $L = \{b \in \Sigma^* : b \text{ is the binary representation of an even number}\}$ 

Regular expression: (0|1)\*0

$$\Sigma = \{1, 0\}$$
 
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 Regular expression:  $(0|1)^*1$ 

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 $\Sigma = \{0, 1\}$   $L = \{b \in \Sigma^* : b \text{ is the binary representation of an even number}\}$ 

Regular expression: (0|1)\*0