

$$(1.1): \Sigma = \{a, b, c\}$$

$$\Sigma^0 = \{\epsilon\}$$

$$\Sigma^1 = \{a, b, c\}$$

$$\Sigma^2 = \{aa, ab, ac, ba, bb, bc, ca, cb, cc\}$$

$$\Sigma^3 = \{aaa, aab, aac, abb, aba, abc, acc, aba, baa, bab, bac, bbb, bba, bbc, bca, bcb, caa, cab, cac, cbb, cba, cbc, cca, ccb\}$$

$$(1.2): \Sigma = \{0, 1\}$$

$$\Sigma^* = \{\epsilon, 0, 1, 00, 01, 10, 11, 000, 001, 010, 011, 100, 101, 110, 111, 0000, 0001, 0010, 0011, 0100, 0101, 0110, 0111, 1000, 1001, 1010, 1011, 1100, 1101, 1110, 1111, \dots\}$$

$$\Sigma^+ = \{0, 1, 00, 01, 10, 11, 000, 001, 010, 011, 100, 101, 110, 111, 0000, 0001, 0010, 0011, 0100, 0101, 0110, 0111, 1000, 1001, 1010, 1011, 1100, 1101, 1110, 1111, \dots\}$$

$$(1.3): L = \{w \mid w \text{ número par de } 0's \text{ ou número ímpar de } 1's\}$$

$$\{0000, 11111, 001111\}$$

$$\{c, d, e\}$$

$$(1.4) L = \{a^n b^m c^n \mid n \geq 0 \text{ e } m \text{ ímpar}\}$$

$$\{aa b b b c c\}$$

$$(c)$$