

AP

$$\mathcal{L}_1 = \{a^n b^m / n \geq 0\}$$

Base B

$$\Sigma = \{a, b\} \quad \Gamma = \{X, B\}$$

$$E = \{S_0, S_1\} \quad B = B$$

$$i = S_0$$

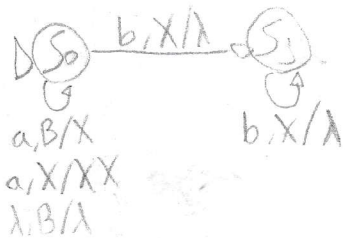
$$\delta(S_0, \lambda, B) = \{S_0, \lambda\}$$

$$\delta(S_0, a, B) = \{S_0, X\}$$

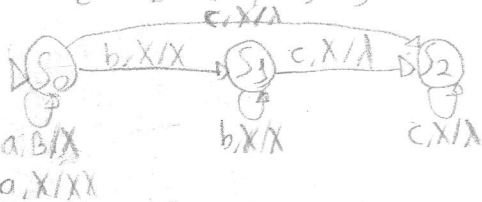
$$\delta(S_0, a, X) = \{S_0, \lambda X\}$$

$$\delta(S_0, b, X) = \{S_1, \lambda\}$$

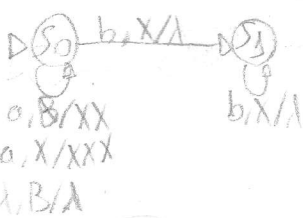
$$\delta(S_1, b, X) = \{S_1, \lambda\}$$



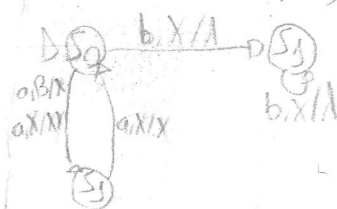
$$\mathcal{L}_2 = \{a^n b^m c^n / n \geq 0\}$$



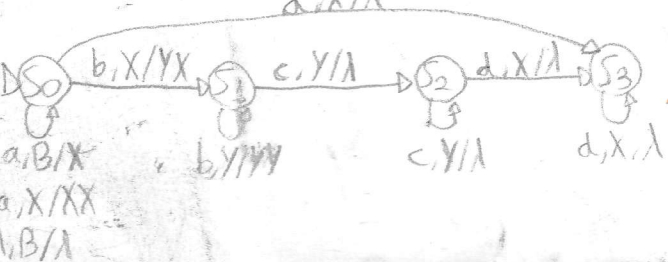
$$\mathcal{L}_3 = \{a^n b^{2n} / n \geq 0\}$$



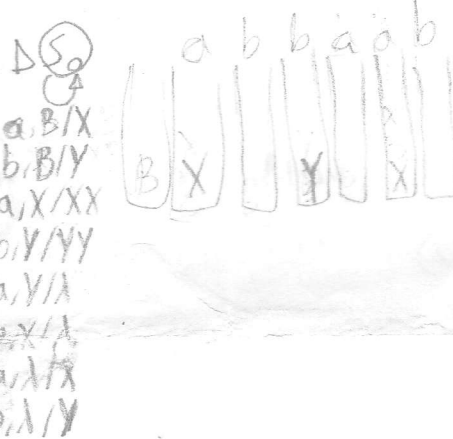
$$\mathcal{L}_4 = \{a^{2n} b^m / n \geq 0\}^*$$



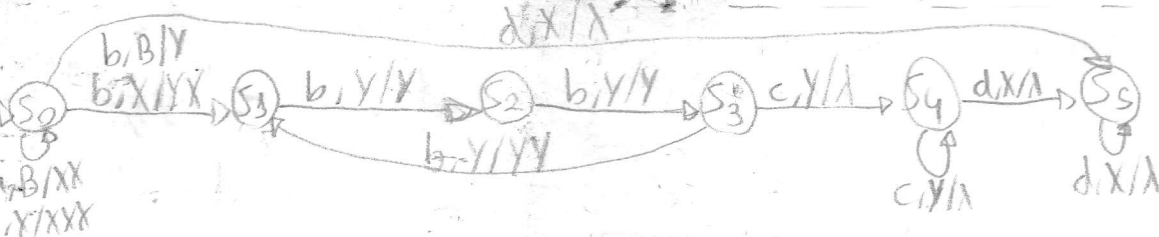
$$\mathcal{L}_5 = \{a^n b^m c^m d^n / n \geq 0 \wedge m \geq 0\}$$



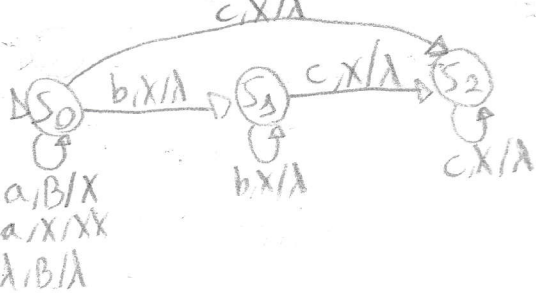
$$\mathcal{L}_6 = \{w \in \{a, b\}^* / |w|_a = |w|_b\}^*$$



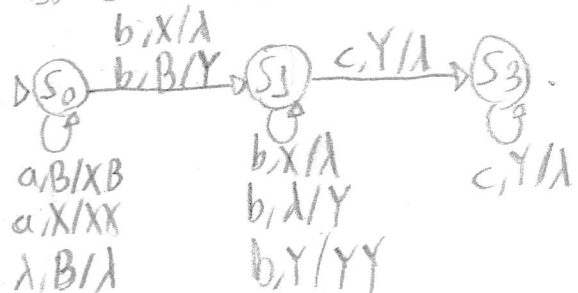
$$\mathcal{L}_7 = \{a^n b^{3m} c^m d^{2n} / n \geq 0 \wedge m \geq 0\}$$



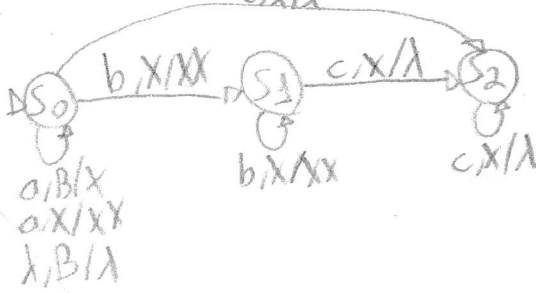
$$\mathcal{L}_8 = \{a^i b^j c^k / i = j + k \wedge j \geq 0 \wedge k \geq 0\}^*$$



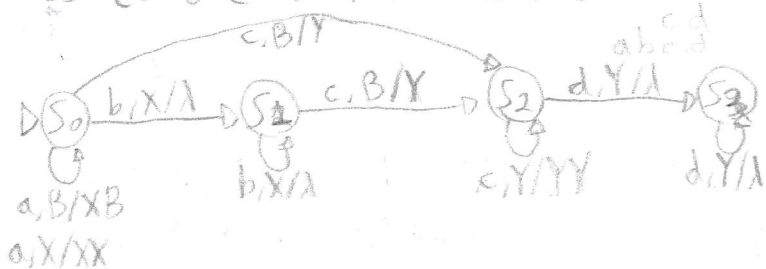
$$\mathcal{L}_{10} = \{a^i b^j c^k / i = i + k, j \geq 0 \wedge k \geq 0\}^*$$



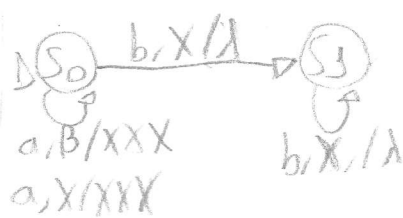
$$\mathcal{L}_9 = \{a^i b^j c^k / i = j + j, j \geq 0, i \geq 0\}^*$$



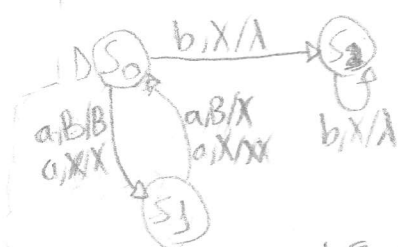
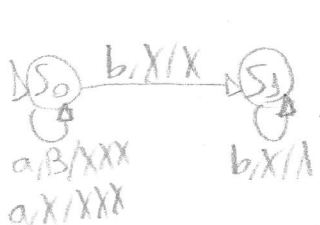
$$L_1 = \{a^n b^m c^m d^m / n \geq 0, m \geq 0\}$$



$$L_2 = \{a^n b^{2m+1} / n \geq 0\}$$



$$L_3 = \{a^m b^{2m+2} / m \geq 0\} \quad L_4 = \{a^n b^{m/2} / n \geq 0 \text{ e } m \text{ par}\}^*$$



$$L_5 = \{a^n b^{m/3} / n \geq 0 \text{ e } m \text{ é múltiplo de } 3\} \quad L_6 = \{a^i b^j c^k / i = j + k \text{ e } k \geq 0\}$$

