Exercices

Exercice 1

G1: S -> aT(droite terminal) | x
T -> S(gauche terminal)b

G2: S -> aSb | x

G3: S -> aT | x
T -> bS

L(G1) ∈ Rat : Non

L(G2) ∈ Rat : Non

L(G3) ∈ Rat : Oui

Si lineaire droite ⇒ Rat
gauche ⇒ Rat

L(G2) = $\{a^n x b^n | n \in N\}$ = L(G1)
L(G3) = $(ab)^k x$ car S -> aT -> abS ->..

Exercice 2

Grammaire: 1) S -> E
2) E -> aE
3) E -> a

1)) S -> .E
E -> .aE
E -> .a

2)) E -> a.E
E -> a.
E -> .aE
E -> .a

3)) S -> e.$

4)) E -> aE.

5)) S -> E$.

Generalized LR(GLR) -> (Bison) exp time
K-LA x $|\sum|$^k donc $|\sum| \simeq \infty$
LR(0) = Simple LR $\subseteq$ LALR(I) $\subseteq$ LR(I)
Simple LR -> Follow (a) = {a_1\$} + Follow (E) = {\$}