(1) $S \to S\,S\,+$

(2) $S \to S\,S\,*$

(3) $S \to a$

$a\,a\,+\,a\,*$

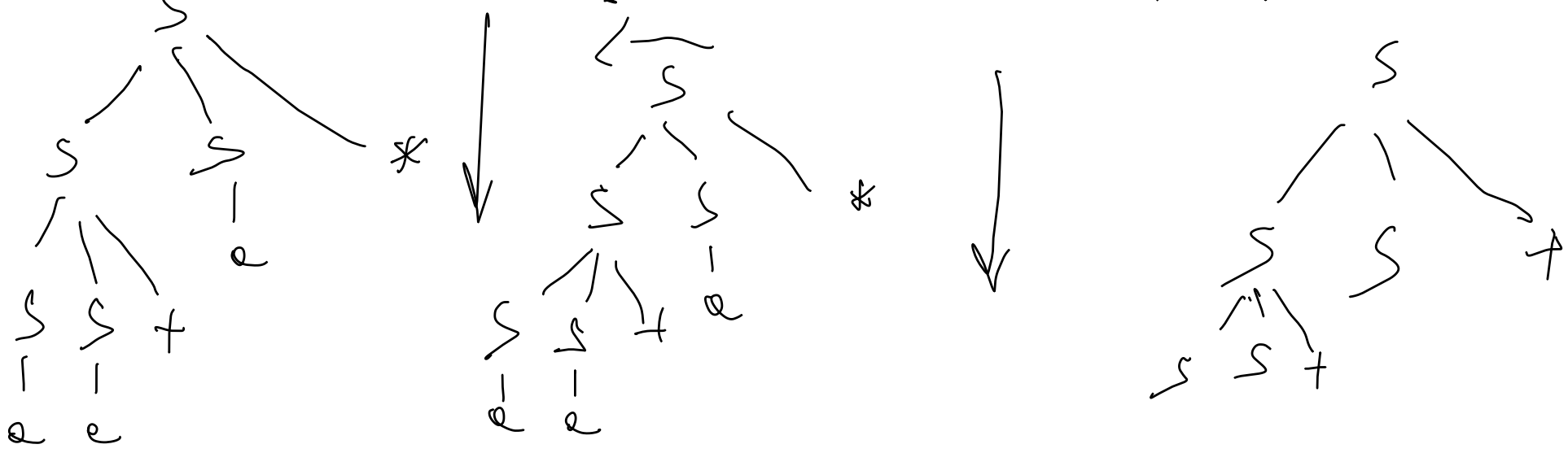
PARSING (TOP-DOWN)

a) DERIV. SX

$S \overset{(2)}{\Rightarrow} \underline{S\,S\,*} \overset{(1)}{\Rightarrow} \underline{S\,S\,+}\,S\,* \overset{(3)}{\Rightarrow} a\,\underline{S}\,+\,S\,* \overset{(3)}{\Rightarrow} a\,a\,+\,\underline{S}\,* \overset{3}{\Rightarrow} a\,a\,+\,a\,*$

DER DX

b) $S \Rightarrow S\,\underline{S}\,* \Rightarrow S\,a\,* \Rightarrow S\,\underline{S}\,+\,a\,* \Rightarrow S\,a\,+\,a\,* \Rightarrow a\,a\,+\,a\,*$



$S \to SS+$

$S \to SS*$

$S \to a$

FATTORIZ. SINISTRA

$S \to SS\,R^{\alpha}$ ←

$R \to +$

$R \to *$

$S \to a^{\beta}$ ←

ELIM. RIC SIN

→ $S \to a\,S'$

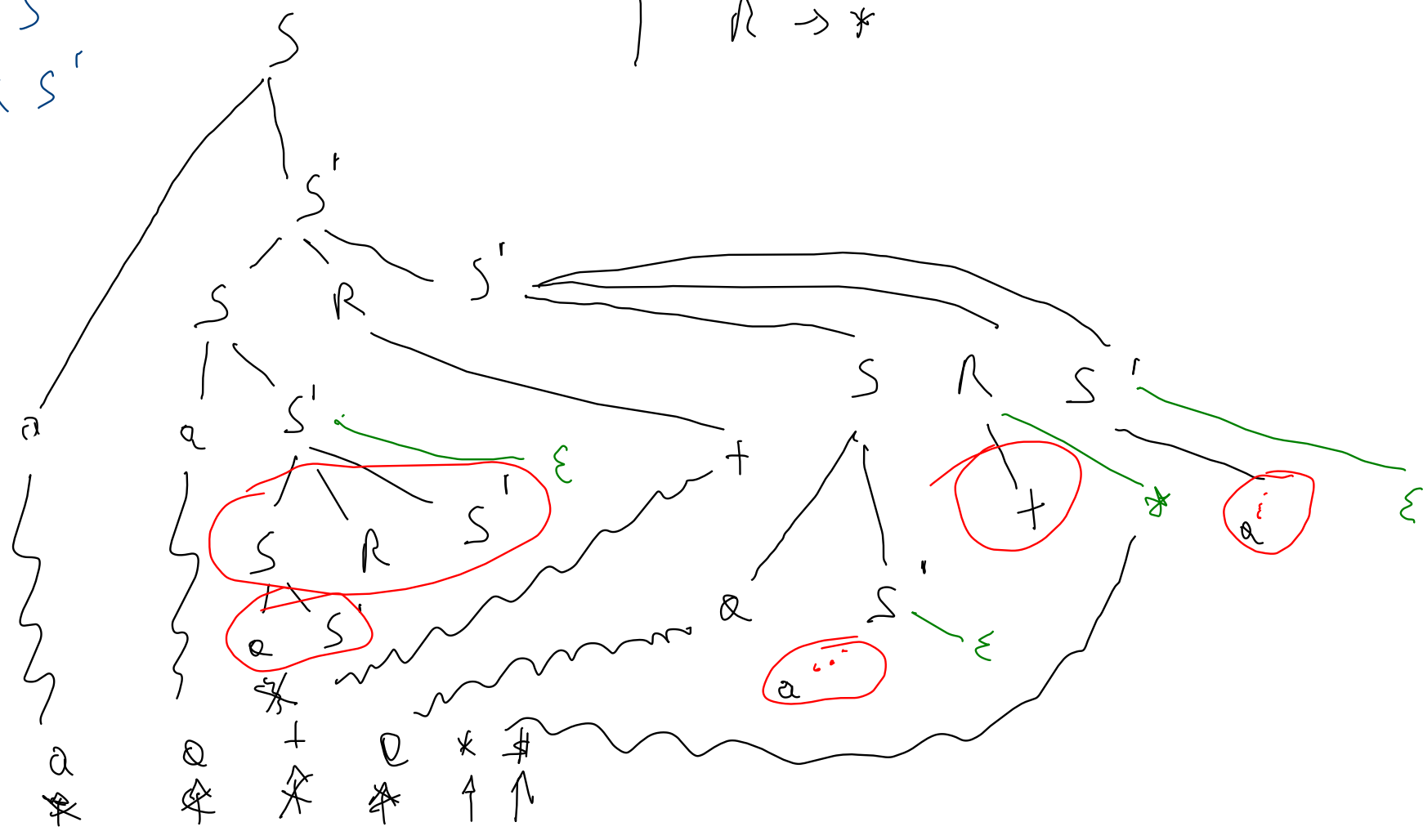
→ $S' \to SR\,S'$

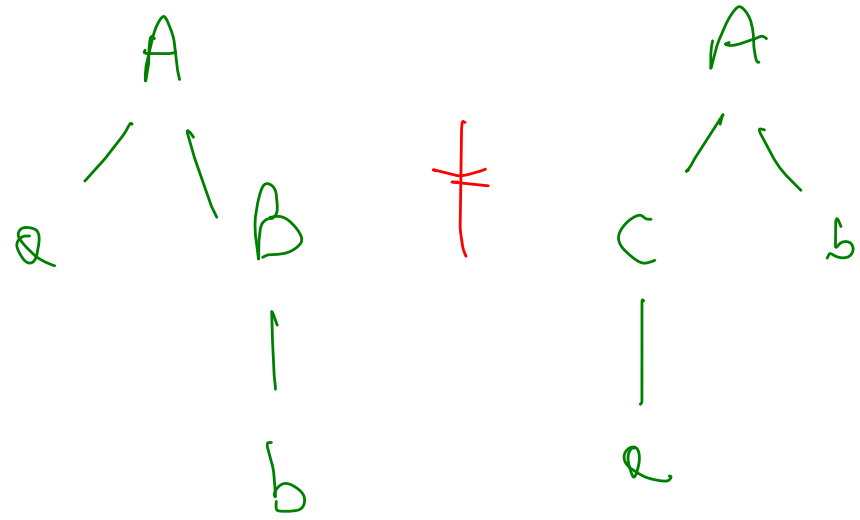
→ $S' \to \varepsilon$

$R \to +$

$R \to *$

$S \to S\alpha \mid \beta \;\to\; S \to \beta S'$, $S' \to \alpha S'$, $S' \to \epsilon$



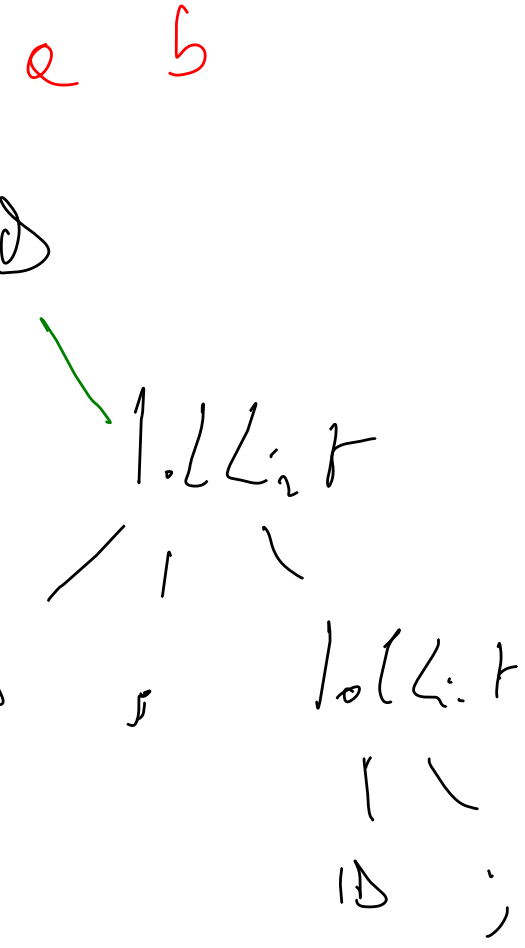


(0) D → T IdList

(1) IdList → ID , IdList

(2) IdList → ID ;

(3) T → int | real



TERMINALE

VOID ID ( ) { INT , ; }

DF → VOID ID ( ) { Body }

Body → D ID (ID) ;

D → INT IdList

IdList → ID , IdList

IdList → ID ;