

$S \rightarrow E \text{ EOF}$   
 $E \rightarrow T E'$   
 $E' \rightarrow + T E' \mid - T E' \mid \varepsilon$        $\text{NULL}(E')$   
 $T \rightarrow F T'$   
 $T' \rightarrow * F T' \mid / F T' \mid \varepsilon$        $\text{NULL}(T')$   
 $F \rightarrow (E) \mid \text{NUM}$

$\text{FIRST}(S) = \text{FIRST}(E \text{ EOF}) = \text{FIRST}(\text{EOF})$   
 $\text{FIRST}(E) = \text{FIRST}(TE') = \text{FIRST}(T) = \{ (, \text{NUM} \}$   
 $\text{FIRST}(E') = \{ +, - \}$   
 $\text{FIRST}(T) = \text{FIRST}(F) = \{ ( \}$   
 $\text{FIRST}(T') = \{ *, / \}$   
 $\text{FIRST}(F) = \text{FIRST}((E)) = \{ (, \text{NUM} \}$

$\$ \in \text{FOLLOW}(S)$   
 $\text{FIRST}(\text{EOF}) \subseteq \text{FOLLOW}(E)$   
 $\text{FOLLOW}(S) \subseteq \text{FOLLOW}(\text{EOF})$   
 $\text{FIRST}(E') \subseteq \text{FOLLOW}(T)$   
 $\text{FOLLOW}(E) \subseteq \text{FOLLOW}(T)$   
 $\text{FOLLOW}(E) \subseteq \text{FOLLOW}(E')$   
 $\text{FOLLOW}(E') \subseteq \text{FOLLOW}(T)$   
 $\text{FIRST}(E') \subseteq \text{FOLLOW}(T)$   
 $\text{FOLLOW}(T) \subseteq \text{FOLLOW}(F)$   
 $\text{FOLLOW}(T) \subseteq \text{FOLLOW}(T')$   
 $\text{FOLLOW}(T') \subseteq \text{FOLLOW}(F)$   
 $\text{FIRST}(T') \subseteq \text{FOLLOW}(F)$   
 $\text{FIRST}()) \subseteq \text{FOLLOW}(E)$   
 $\text{FOLLOW}(F) \subseteq \text{FOLLOW}()$

	$\mid \text{FOLLOW}$
S	$\mid \$$
E	$\mid ), \$$
E'	$\mid ), \$$
T	$\mid +, -, \$, )$
T'	$\mid ), +, -, \$$
F	$\mid *, /, +, -, \$$

#### PRODUZIONI | GUIDA A $\rightarrow \alpha$

$S \rightarrow E \text{ EOF}$	$\mid$	$\{ (, \text{NUM} \}$
$E \rightarrow TE'$	$\mid$	$\{ (, \text{NUM} \}$
$E' \rightarrow +TE'$	$\mid$	$\{ + \}$
$E' \rightarrow -TE'$	$\mid$	$\{ - \}$
$E' \rightarrow \varepsilon$	$\mid$	$\{ ), \$ \}$
$T \rightarrow FT'$	$\mid$	$\{ (, \text{NUM} \}$
$T' \rightarrow *FT'$	$\mid$	$\{ * \}$
$T' \rightarrow /FT'$	$\mid$	$\{ / \}$
$T' \rightarrow \varepsilon$	$\mid$	$\{ ), +, -, / \}$
$F \rightarrow (E)$	$\mid$	$\{ ( \}$
$F \rightarrow \text{NUM}$	$\mid$	$\{ \text{NUM} \}$