

$S = ab \mid aXb.$

$X = Xb \mid a.$

(0)  $S' = S\#.$

(1)  $S = ab.$

(2)  $S = aXb.$

(3)  $X = a.$

(4)  $X = Xb.$

|   | a  | b    | #    | S  | X  |
|---|----|------|------|----|----|
| 0 | s1 | -    | -    | s2 | -  |
| 1 | s5 | s3   | -    | -  | s4 |
| 2 | -  | -    | acc  | -  | -  |
| 3 | -  | -    | r(1) | -  | -  |
| 4 | -  | s6   | -    | -  | -  |
| 5 | -  | r(3) | -    | -  | -  |
| 6 | -  | r(4) | r(2) | -  | -  |

|   |  | Aktion  | Wegweiser (Guide) |
|---|--|---|-------------------|
| 0 | $S' = S\#$<br>$S = ab$<br>$S = aXb$            | $S \rightarrow S$<br>$S \rightarrow a$                      | a                 |
| 1 | $S = a.b$<br>$S = a.Xb$<br>$X = a$<br>$X = Xb$ | $S \rightarrow b$<br>$S \rightarrow X$<br>$S \rightarrow a$ | b                 |
| 2 | $S' = S.\#$                                    | acc #   | #                 |
| 3 | $S = ab.\#$                                    | r # (1)   | #                 |
| 4 | $S = aX.b$<br>$X = X.b$                        | $S \rightarrow b$   | b                 |
| 5 | $X = a.b$                                      | r b (3)   | b                 |
| 6 | $S = aXb.\#$<br>$X = Xb.$                      | $r \# (2)$<br>$r b (4)$                                     | #                 |