

Aceptación:

$S \rightarrow aSb \rightarrow ab \vee b \rightarrow aba \vee b \rightarrow abaa \vee b \rightarrow \underline{abaaab}$

$\begin{array}{|c|} \hline \cancel{S} \cancel{S} \cancel{S} \\ \hline \end{array}$

\cancel{abaaab}

$\begin{array}{|c|} \hline \cancel{S} \cancel{Y} \cancel{S} \\ \hline \end{array}$

\cancel{abaaab}

~~a~~
y
~~y~~
b

~~a~~~~a~~~~a~~b

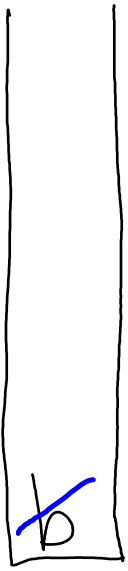
~~a~~
y
~~y~~
b

~~a~~~~a~~~~a~~~~a~~b

~~y~~
b

~~a~~~~a~~~~a~~~~a~~b

(3)



(ϵ)

~~ababab~~

Por lo que la palabra es aceptada.