

\*3. Find the language of the following grammar.

(Homework 6)

$$G: S \rightarrow aA \mid bA \mid a \mid b$$

$$A \rightarrow aS \mid bS$$

วิธีทำ  $L(G)$  a b a-A a-A a-A ...  
 $\begin{array}{c} a-S \\ | \\ a \end{array}$   $\begin{array}{c} a-S \\ | \\ b \end{array}$   $\begin{array}{c} b-S \\ | \\ a \end{array}$

$$L(G) = \{ a, b, aaaS, aab, aba, abb, baS, bab, bbb, aaaSa, aaabS, aabba, aabbb, abbaa, \dots \}$$

ข้อนี้ถ้า

$$L(G) = \{ w ; w \in \{a,b\}^* - \{\lambda\} \mid |w| \bmod 2 \neq 0 \} \quad \neq$$