2. (a)  $G = (\{5, A, B\}, \{a, b\}, 5, P\})$   $S \to Ab$   $A \to Ab \mid B$  $B \to AB \mid A$ 

 $G = \{\{ S, A, B \}, \{ \alpha \}, S, p \} \}$   $S \rightarrow \alpha A$   $A \rightarrow \alpha B | 2$  $B \rightarrow \alpha \alpha A | 2$