

Lab 2 Write-Up

2. a) $A ::= A \& A \mid V$

$V ::= a \mid b$

ϵ

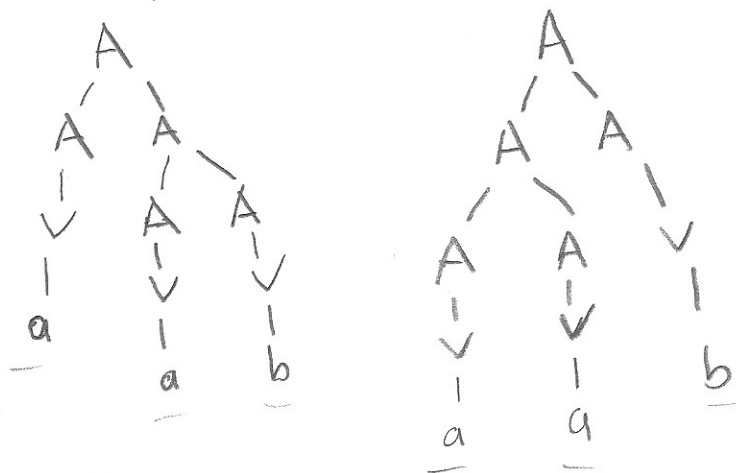


$A \in Aobjects$

$V \in Vobjects$

$a, b \in Vobjects \rightarrow a, b \in Aobjects$

b) Show the grammar is ambiguous. Will use two different parse trees to get to same result "aab".



c) Describe the

$S ::= A \mid B \mid C$

$A ::= aA \mid a$

$B ::= bB \mid \epsilon$

$C ::= cC \mid c$

language defined by the following grammar:

Will create a string of repeating letters, S defines what letter the string will

be, a, b, or c, no mixing. A, B, or C can then be called repeatedly to make

a string of any size, the only

exception or difference being B has the possibility of making an empty string "" due to the terminating character ϵ that defines empty.