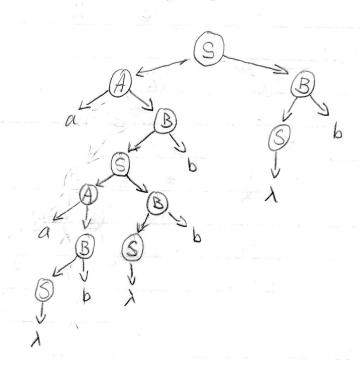
```
Homework Module # 10)
                        Sec 5.1: 96, 126, 22
                        sec 5.2: 20
                            K*Show grammer in example
                              5.5 is ambigous.
Sec 5.1
  9. Find context three grammers for the following
     languages (with n > 0 and m > 0):
   b) L= { anbm; n=m-1} + 0=(1)-1, thus n=0
      Production (Rules (P) > SATE
         S Ab
              A > 0 Ab 1 A
      [G=({S,A}, {a,b}, P,S)]
  12. Find context - free grammers for the following
    languages (with nzo, mzo, Kzo):
  b) L= { a n b m c x : n = m or m + k }
             Production Rules (P) * n=m
                S -> asb A
                A -> cAll
            Production Rules (P) * m + K
                S-> AB
              A \rightarrow aA / \lambda
                B -> bBc | b | c
            Production Rule (P) *n=m or m + K
                               IA-> aA 1
                S -> X AB
                x->aXb|Y/LB->bBc|b|c
              Y > CY /
```

22. Show a derivation tree for the string aabbbb with the grammer

 $S \rightarrow AB \mid \lambda \quad A \rightarrow aB \quad B \rightarrow Sb$ $\# S \Rightarrow AB \Rightarrow aBB \Rightarrow aSbB \Rightarrow aABbB$ $\Rightarrow aaBBbB \Rightarrow aaSbBbB \Rightarrow aa(\lambda)bBbB$ $\Rightarrow aabbbbB \Rightarrow aabbbb \Rightarrow aabbbbb$

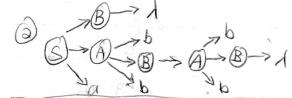


Sec 5.2

Show that the grammer in Example 5.5 is ambiguous. * EX 5.5 S > aAB A > bBb B > All

*For string abbbb





& distinct parse trees, grammer