Homewark #4 1. Do a Brute Force search to End a passe tree for ghe input int/ int. Use top-down approven preaming you begin with the start rule (the first rule and find a Loft derivation, When chousing which the to use in a degration go it ander at the ruiss. The not terminal is an integer literal <ET := <TT - <ET | <T> < 77 !:= (KE7) | int | int / < T7 $\langle E \rangle \rightarrow \langle \tau \gamma - \langle E \rangle \rightarrow int - \langle E \rangle \times \\ \rightarrow \langle \tau \rangle \rightarrow (\langle E \rangle) \times \\ \rightarrow int \times$

2) Compute the FIRST sets for the following.

Compute follow sets of vell for extra credit. $(A7: = \langle A \rangle \langle A \rangle + \langle A \rangle \langle A \rangle | * \langle A$

```
5. The Following is a grannmar desalbes a language for regular
expressions over symbols a and by the languages uses +-soon in place of a 1-sign for union. I-sign is puriof BNF sympol, + peri language (rexpr7 : = <rexpr7 + <rexpr7 < rem)
     (sterm) := < sterm) < r factor) | (r factor)
    < s factor 2 i = < r factor > * | < r primary 7
  < F primary > = a / 6
                                    2 -> * Z
    Trimany -> a
-> b
    rterm > rfactor /
   y 7 stream y
  rfactor + rpamay 2
                (rexpr)
                                             I term X I TErm X
                    X Arigan X
                (Freem)
                                            rfactor rfactor
                                            Hackery steerury
                (I Freier)
                                            rprimary & rprimary &
                                      * 3
                                                  Ь
                E PERCURY ?
                                              0
  f_{IRST}(respr) = {a, b}{3}

f_{IRST}(x) = {+3} \cup {5}{3}
 first ( r term) = {a, b}
first (Y) = {a, b} U { + $}
```