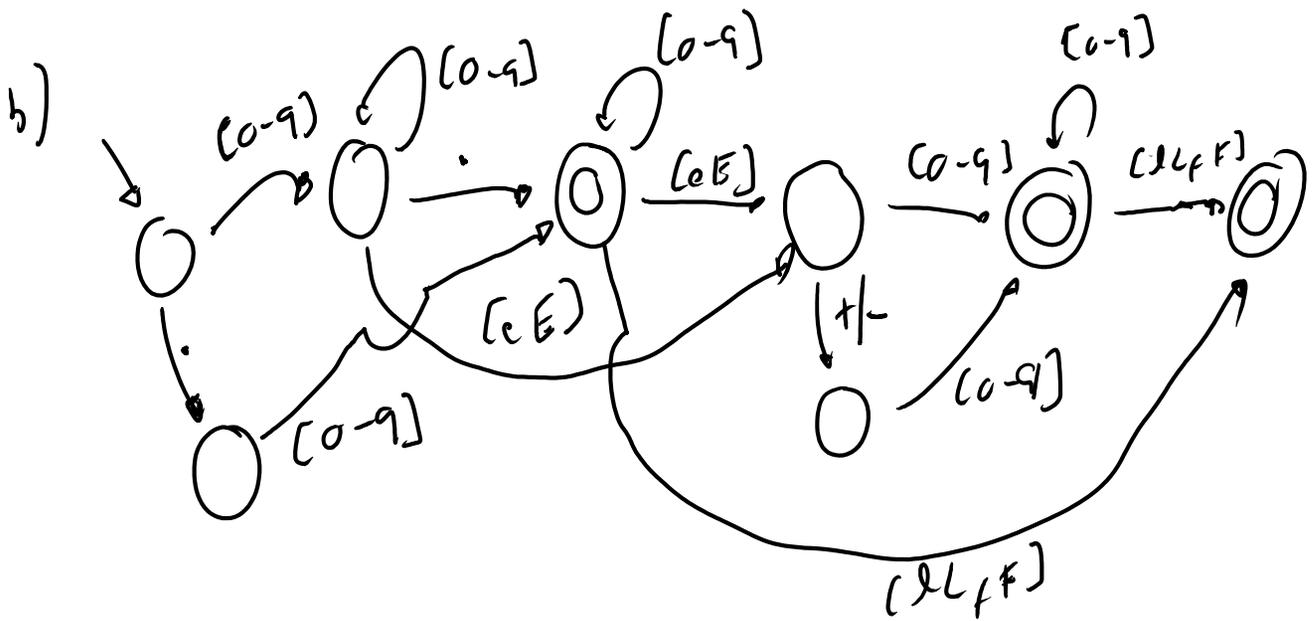


1.

a)

$$\begin{aligned}
 & [0-9]^+ [.] [0-9]^* ([\epsilon E] (+|-)? [0-9]^+)? [LlFk]^! | \\
 & [0-9]^* [.] [0-9]^+ ([\epsilon E] (+|-)? [0-9]^+)? [LlFk]^! | \\
 & [0-9]^+ ([\epsilon E] (+|-)? [0-9]^+ [LlFk]^!
 \end{aligned}$$

pode fatorar à vontade!



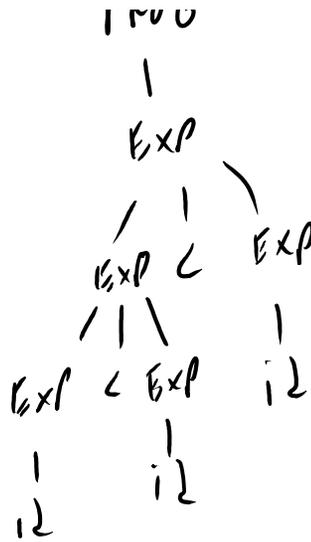
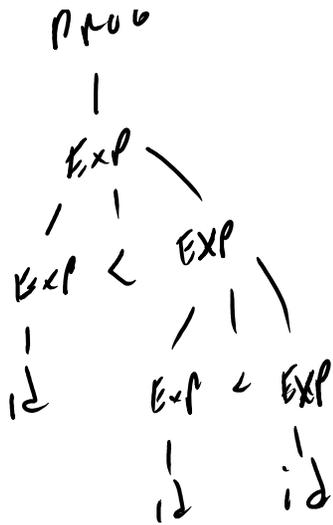
pode duplicar estados à vontade!

2) a)

prob  
|

prob  
|

a)



b) <sup>with</sup>

```
fun() {  
  terminal(FUN);  
  terminal(ID);  
  terminal('(');  
  if (la == ID) {  
    terminal(ID);  
    while (la == ',') {  
      terminal(',');  
      terminal(ID);  
    }  
  }  
  terminal(')');  
  exp();  
}
```

terminal (EMP);

}

c)

$EXP \rightarrow TERMO \{ < TERMO \}$

$TERMO \rightarrow FATOR \{ + FATOR \}$

$FATOR \rightarrow \text{if } EXP \text{ then } EXP \text{ else } EXP \text{ end}$

$(i2) \text{ '([ EXP 1, EXP 3] )'}$

| num

$(i2)$

ou

$EXP \rightarrow TERMO \text{ EXP}'$

$EXP' \rightarrow < TERMO \text{ EXP}' \mid \epsilon$

$TERMO \rightarrow FATOR \text{ TERMO}'$

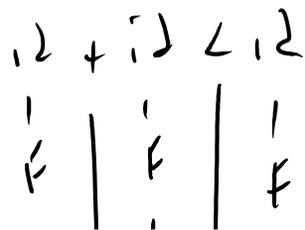
$TERMO' \rightarrow + FATOR \text{ TERMO}' \mid \epsilon$

$FATOR \rightarrow \text{igual ao de cima}$

PRINCIPAL:

$EXP \rightarrow TERMO < EXP \mid TERMO$

$TERMO \rightarrow FATOR + TERMO \mid FATOR$



TERMO  $\rightarrow$  FATOR + TERMO / FATOR

FATOR  $\rightarrow$  igual ao de cima

$\bar{P} \bar{D}_0$  é  $L(\frac{1}{2})$  por causa de  $id(' [exp \{, exp\} ]')$  /  $id$

