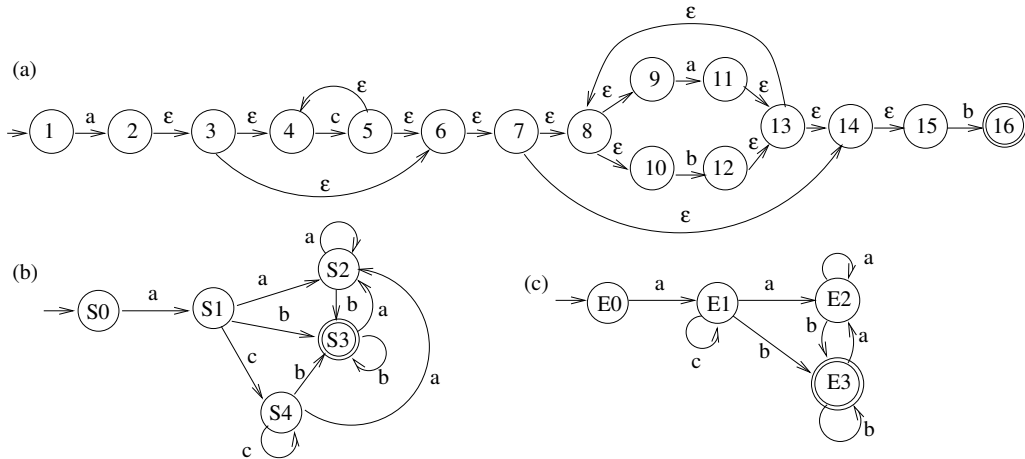


Gabarito da Prova 2 de EA879 — Turma U, outubro de 2008

1

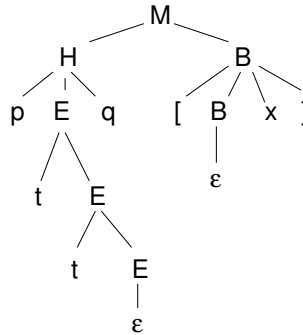
- (a) $G_1 = (\{X, N, M\}, \{BODY, MSG, PNAM, SNAM\}, P_1, MSG)$ com $P_1 = \{$
 $MSG \rightarrow PNAM\ BODY\ SNAM, \ PNAM \rightarrow X\ PNAM, \ PNAM \rightarrow \varepsilon, \ BODY \rightarrow N,$
 $BODY \rightarrow M, \ SNAM \rightarrow N, \ SNAM \rightarrow \varepsilon \}$
- (b) Regular. $X^*(N|M)X^*(N|M)N$ ou também $X^*(N|M)(N|\varepsilon)$
- (c) $\{X^n M^q N^r | n \geq 0, 0 \leq q \leq 1, (1-q) \leq r \leq (2-q)\}$

2



3

- (a) $M \Rightarrow HB \Rightarrow pEqB \Rightarrow ptEqB \Rightarrow pttEqB \Rightarrow pttqB \Rightarrow pttq[Bx] \Rightarrow pttq[x]$
- (b)
- | | p | q | t | x | [|] | \$ |
|---|----|----|----|----|----|---|----|
| M | P1 | | | | | | |
| H | P2 | | | | | | |
| E | | P4 | P3 | | | | |
| B | | | | P6 | P5 | | P6 |
- (c) Árvore:



4

- (a) $M \Rightarrow HB \Rightarrow H[Bx] \Rightarrow H[[x]x] \Rightarrow pEq[[x]x] \Rightarrow ptq[[x]x]$

(b)

	p	q	t	x	[]	\$
B				D			R
E		D	D				
H					D		
M							
p			D				
q					R		
t		R	R				
x						D	
[D	D		
]				R			R
\$	D						

(c) Árvore:

