

# Teoria de Computação - Lista de Exercícios 8

$$1) \{a^n b^{n+1} c^{n+2} \mid n \geq 0\}$$

$$n=1: a b^2 c^3 = abbccc$$

$$n=2: a^2 b^3 c^4 = aabbbbcccc$$

$$P \rightarrow aPbc \mid bcc$$

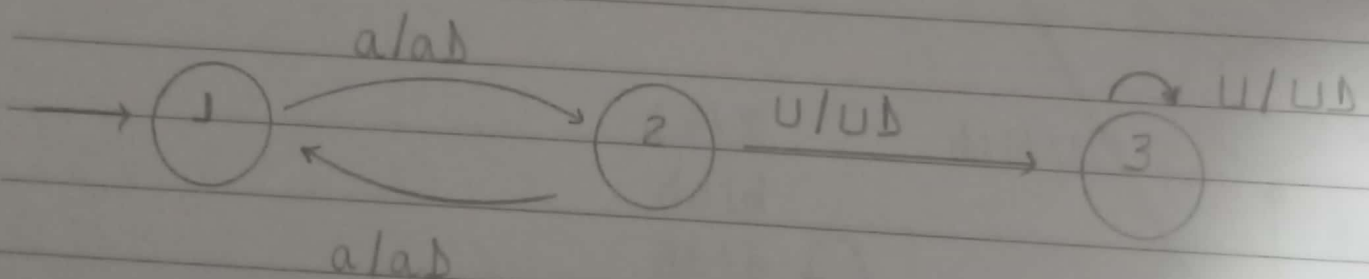
$$cB \rightarrow Bc$$

$$bB \rightarrow bb$$

$$2) a^{2n}: n=0 \rightarrow a$$

$$n=1 \rightarrow aa$$

<	a	a	...
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$$3) a \rightarrow 0, b \rightarrow 1, c \rightarrow 2$$

$$a/00$$

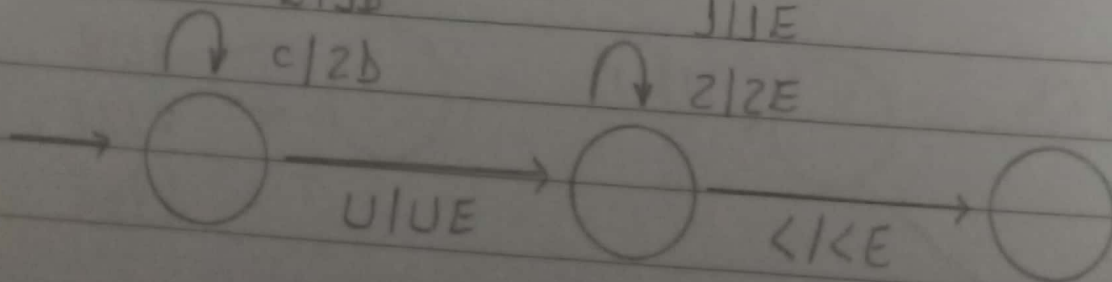
$$0/0E$$

$$b/11$$

$$1/1E$$

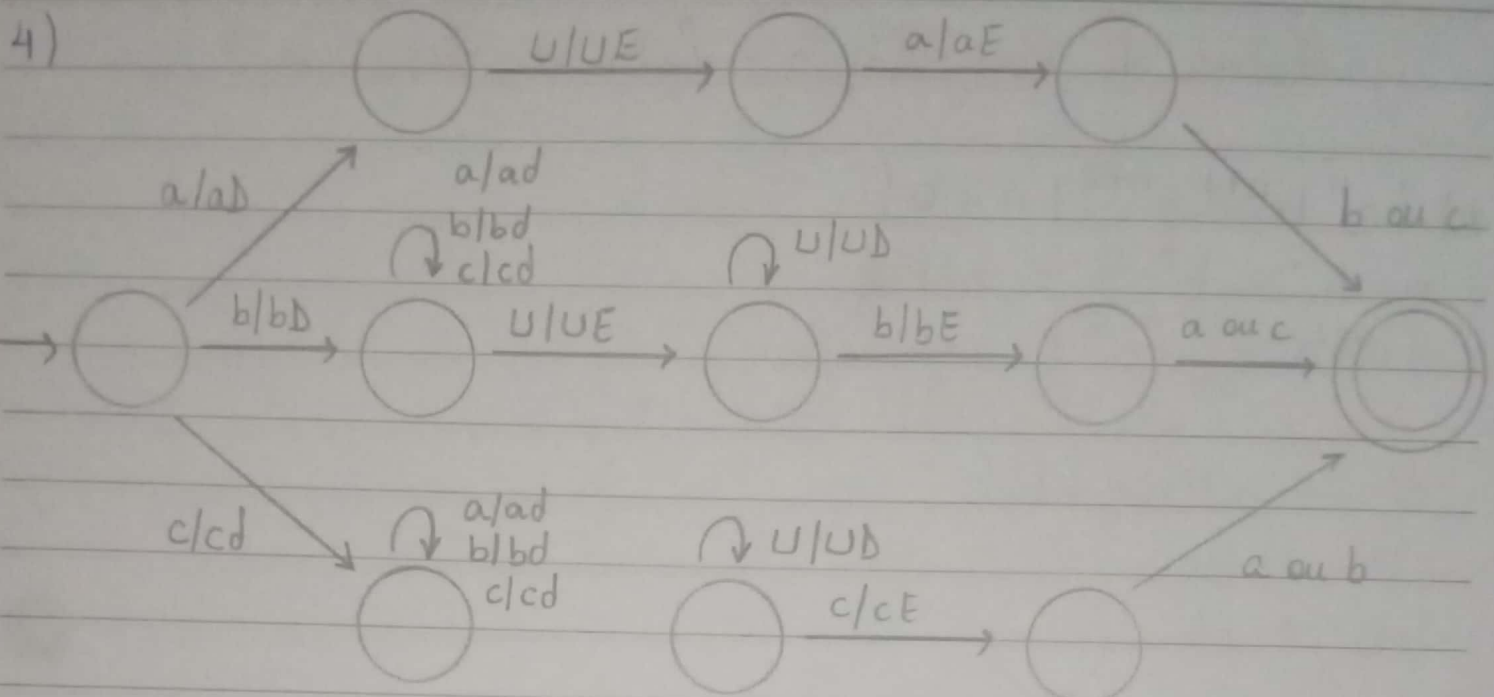
$$c/22$$

$$2/2E$$



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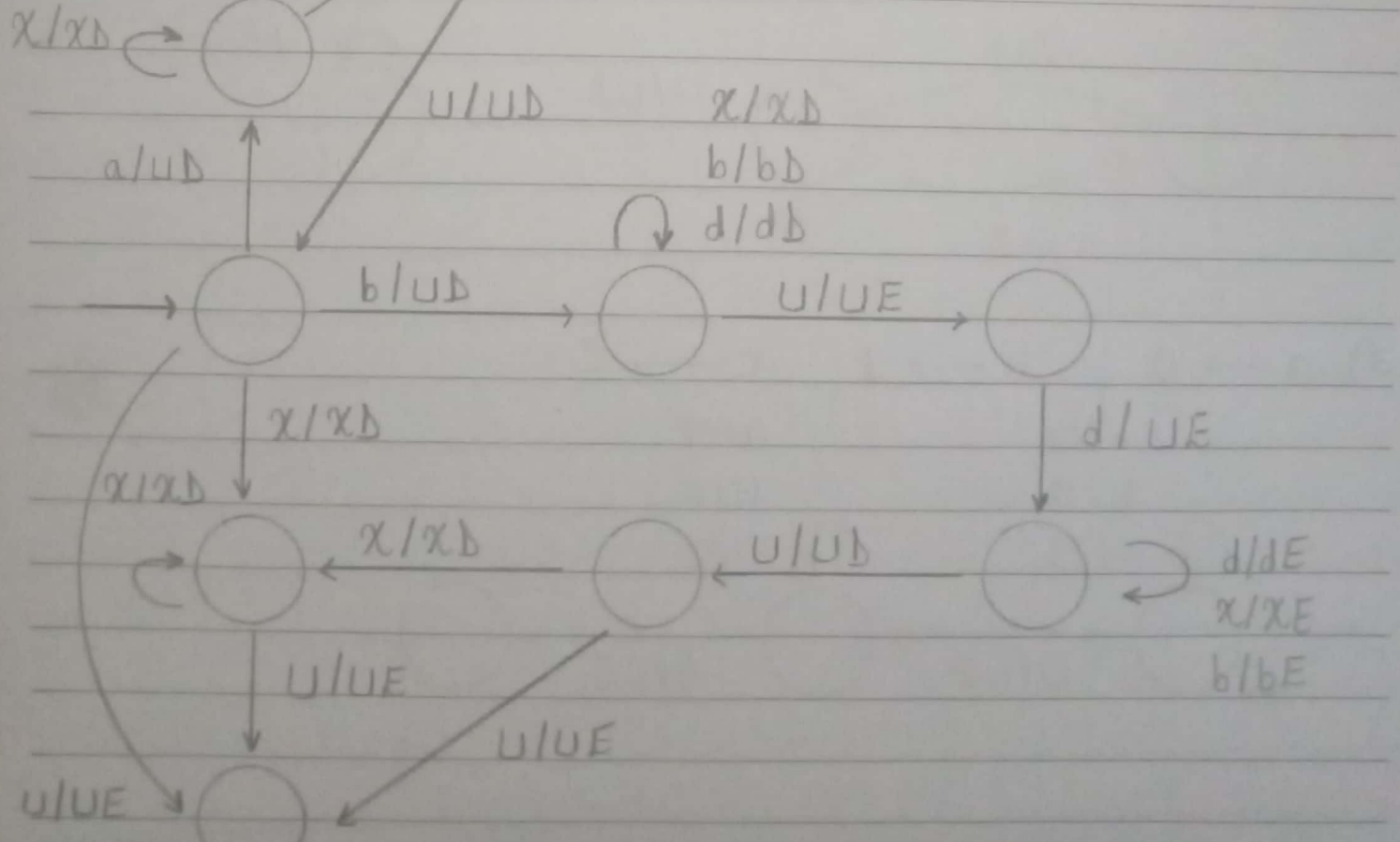
$a/ad$   
 $b/bD$   
 $c/cD$   
 $U/UD$



5)

$b/bD$   
 $a/ad$   
 $x/xD$

$c/xE$   
 $x/xE$   
 $b/bE$   
 $a/aE$



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