

a) construa um AF a partir desta gramática

$\{S, B\}, \{0, 1\}, \{S\}$

$\{$

$S \rightarrow 0 \quad " \quad B \rightarrow 1B$

$S \rightarrow 1 \quad " \quad B \rightarrow 11$

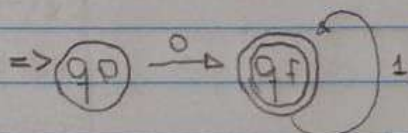
$S \rightarrow 0B \quad "$

$S \rightarrow 01 \quad "$

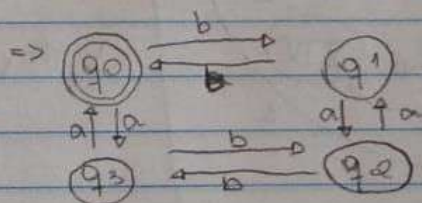
$\}$

$L(A) = \{0, 1, 01, 011, 0111, \dots\}$

Gráfico

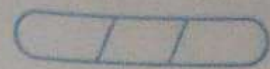


b) construa uma gramática para o seguinte AF



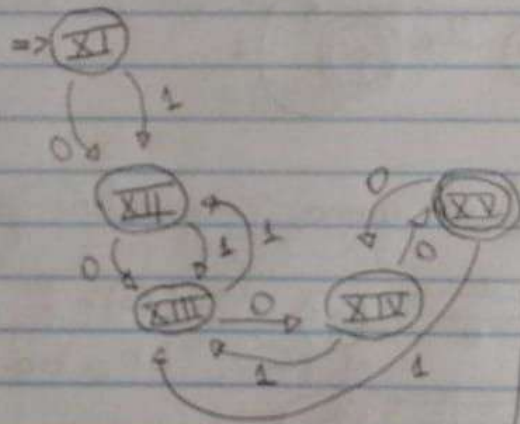
$L(A) = \{ \epsilon, aa, bb, baba, abab, bbab, \dots \}$





$\delta$	0	1		$\pi_0$	0	1	$\pi_1$	0	1	$\pi_2$	0	1
A	B	C	A		I	I	A	IV	IV	A	VII	VII
B	E	D	B		I	I	B	IV	IV	B	VII	VII
C	E	D	C		I	I	C	IV	IV	C	VII	VII
D	F	B	D	I	I	I	D	V	IV	D	VII	VII
E	G	C	E		I	I	E	V	IV	E	VII	VII
F	H	E	F		I	I	F	V	IV	F	VII	VII
G	J	D	G		I	I	G	V	IV	G	VII	VII
H	G	D	H	I	I	I	H	V	IV	H	VII	VII
<del>I</del>	<del>G</del>	<del>D</del>	<del>J</del>		<del>I</del>	<del>I</del>	<del>J</del>	<del>V</del>	<del>IV</del>	<del>J</del>	<del>VII</del>	<del>VII</del>
J	G	D										

$\pi_3$	0	1
A	XI	XII
B	XII	XIII
C	XIII	XIV
D	XIV	XV
E	XV	XVI
F	XVI	XVII
G	XVII	XVIII
H	XVIII	XIX
J	XIX	XX



$XI \rightarrow q_0$   
 $XII \rightarrow q_1$   
 $XIII \rightarrow q_2$   
 $XIV \rightarrow q_3$   
 $XV \rightarrow q_4$

