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252 57

5# TA

1.2

↑	L
-	+ L
+	σ
T	↑
+	L
-	+
↑	L
+	+
T	L
+	q
T	t
+	+
L	L
↑	+
T	L
+	↑
L	T
↑	+
L	+
(U)	L

$$\begin{array}{r} 5 \\ + \\ 5 \\ + \\ 9 \end{array}$$

(P) $\exists \rightarrow \neg$ (F) \rightarrow (E) \rightarrow (F) \rightarrow (E) \rightarrow

[illegible]

2.4 b) $S \rightarrow 1A1 \mid 0A0$
 $A \rightarrow 0A \mid A0 \mid 1A \mid A1 \mid \epsilon$
 e) $S \rightarrow 1S1 \mid 0S0 \mid A$
 $A \rightarrow 0 \mid 1 \mid \epsilon$

2.14 $A \rightarrow BAB \mid B \mid \epsilon \rightarrow A_0 \rightarrow A$
 $B \rightarrow 00 \mid \epsilon \rightarrow A \rightarrow BAB \mid B \mid \epsilon$
 $B \rightarrow 00 \mid \epsilon$

$A_0 \rightarrow A$
 $A \rightarrow BAB \mid B \mid AB \mid BA \mid A \mid \epsilon$
 $B \rightarrow 00$

$A_0 \rightarrow BAB \mid B \mid AB \mid BA \mid A \mid BB$
 $A \rightarrow BAB \mid B \mid AB \mid BA \mid A$
 $B \rightarrow 0$
 $B_1 \rightarrow 0$

2.5 b) Starts and ends with either 1 or 0

e) Accepts strings of 0's and 1's that are the same string reading it forward and backward.

b)

