



3	DATE PAGE
0	sentana tem with seference to
	context free grammar
0	A sentinal form is any string derivable from the stoot
	symbol. Thus - in the derivation of a + a + a , E + T * F
	and E+F* and F+ata and All S-12-11 for
	and E+F+A and F+a+a are all sentential forms as are E and a+a+a-themselves.
(2)	
(P)	18 Let G= (V,T,P,S) be a CFG and a C (VUT)*
	It 5 1 a
	then, we say that a is a sentential from
0	If s > a , we say that a is a left sentential from .
	and if s = a constant is a south and it is
(a)	and if s = x, we say that x is a right sentintial ferm.
(3)	Note: - LCa) is those sentential forms that are in T*
0	Consider the given cra.
	({ s. B y , {a, b } , s , { s - a s , s - B , B - b B , B - 2 })
	A derivation using this grammas might look like this -
	S > as -> aB => abB => abbB => abb
THE	Each of (S, as, aB, abB, abb B, abb) is a sententry form.
	Because this grammar is linear, each sentential form has
	at most one variable. Heree, there is never any choice about
	which variable to expand-lossy ment

DATE Justify how a Turing Machine can simulate a general purpose computer and via versa 1- The Church-Turing thesis states that any sufficiently powerful computational model which captures the motion of algorithm is computationally equivalent to the Tuning machine. This equivalence usually holds both a computability level and st a computational complexity level modulo polynomial reductions In particular, it is shown that some models of computational perspective, general purpose analog computer is equivalent to computable anatysis. (c) Connection between this two models, form a computatoral complexity level, by showing that, modulo polynomial reductions computations of Turny Machines can be by GPACS, contrast the need of wany more resource than those used in the original Tuning computation, as long as we are talking about bounded computations (d) eimedating Tuning Machine by computer -@ Simulation of the Turing Machine on a Digital Computer is a useful and practical tool not only for problem solving and validation of algorithms but also in the field of programming TM are as powerful as the most sophisticated real-counted programming languages, which is great, because formally proving anything about a java would be difficult