







3)	Unit Resolution
	unit sesolution sule takes a clause - disjunction of literals - and
	a literal and produces a new dauge.
2.50	Prod by resolution rile,
	J. Vl2 V Jk, m, Vm2 Vmn
	livle-vlkvm, vm2 - vmh
7 - 4"	
	whix I; of Iz an complimentary literals.
•	Soundness: - A proof system is sound if it news diviver table.
	condusion from true primices.
	The soundness of the resolution rule can be seen easily by
	considering the literal lithat is complimentary to literal mi
	in the other clause. If li is tove, them my is false, and hence
	m, V=-Vm, Vm, V _ Vmn must be tove, because
	my my - vm, 15 giun. If lis false thin il, vly vlk
	most be tove because IN VIX IT given Now II IT
	either true or false, so one or other of their conclusion holds -
	exactly as the resolution sule states
•	Completenen: - A proof is complete of, given any valid statement
	It can eventually desire that statement using the inference rules
	If a set of sentences is unsatisfiable, then resolution will always
	be able to disive a contordiction.
	Charles I have Cu
	Our goal therefore is to prove the following.
	Al E es a man de la colonia de
	of 5 is an unsatisficable set of clauses, then the
	application of a finite number of resolution steps
	to 5 will yield a contogdiction.

