Weak	5A-	Mare.	FOL
		100	

- #	literal = atom V7 atom
-0	dause = $(a_1 \wedge a_2 \wedge \wedge a_n) \longrightarrow (b_1 \vee b_2 \vee \vee b_n)$
-0	refutation! [= \$ (f) [U\[-10]] = False
	this enterined by Time this MUST be incompletent
	- sockwation: adding nove and more rules to TUET \$3
	- Southwattion: adding more and more rules to $\Gamma U \le 703$ until Onething more to add — Twe have derived false I in which case, \$\Phi\$ is entailed by Γ (confirm)
	- o para modulation: CVS=t [[U]VD
	-o para modulation: CVS=t [[U]VD] -o Lifts idea behind esolution to EQUALITY
	- demodulation: for UNIT equalities
— 8;	Equality resolution: $\forall scof(sc) \neq f(a)$ $\forall foliantions$ NEVER true: an make $scorel$ a equal () disequality is folse
	annulse of one a equal () disequality is false
-0	Tonsformation to Clausal Form:
	(1) Rectify formula (2) Transform to Negation Normal Form (3) Eliminate quantifiers (4) Transform to ENE
	& Transform to ENE

variables ed all brund variables distinct from free ones - Trans(orm into NNF: - Vx((-)y.p(xy)) → g(x)) 1 p(4,6)17]x.y(x) Q Xx. (7(3y. p(x,y)) V g(sc)) $\forall x. (\forall y. \neg p(n,y) \lor q(x))$ - o getting rid of existential quantifiers: & Skolemisation: f = f $f(x_1, x_2, \dots, x_n)$

