Aplicate priving formo normala okolem Sa ex stabileance forma normala skalem pentre formula ex redata prin:  $\alpha = [\exists x \forall y \ R x y] \rightarrow \forall y \exists z (Ryz \land Tya), unde R,T \in PS, r(R) = r(T) = 2, aeCS$   $x : \exists x \forall y \ R x y \rightarrow \forall y \exists z (Ryz \land Tya), unde R,T \in PS, r(R) = r(T) = 2, aeCS$ Etapele de transformage a formuloi or pentre stabiliso FASKolom 1) Renotora variobilelas petru car avem cuartificani multiple:  $\alpha_1 = \exists x \forall y Rxy \rightarrow \forall x \exists z (Rxxz \land Txxa) // substituire variobile y cuartificati

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\text{variobile} \\
\text{variobil$ 2) Stebiliza Jamei normali prinex (confirm ou sabland Qxy Qxx... dxx B)
2.1.) 05 = 7 (7x yy Rxy) V YW32 (RXX NTXa) // (1 > 0) = (7x V) // (1 → 0) = (2/2 VO) 22.) Kg = (AX 34 JKXA) ~ (AM33 (KM3V IXV)) 11 T(3xB) = YX 7B; 7(YXB)=3x7B 1/ (Dx yr) P = = Dx (pr = ), dara 2,3.) K4 = AX 3 YXX 3 2 (LXX TXX) 3) Aplicara lemni de normalijen Skolem  $K_{5} = 4 \times 4 \times 32 \left( 7 Rxy v (Rwin Tixa) \right) \left\{ \frac{1}{2} \left[ \frac{1}{2} \right] = 4 \times 4 \times 32 \left( 7 Rxy v (Rwin Tixa) \right) \right\}$ KG = XXX W ( 7 Rx /x U (RW3 NT KG)) } gxw 2) = +x +vx (7Rx /x x (Rx/9xw A Tx4))
unde r/g) = 2, 9 FFS