

unification in First order Logic Explusion 1 - Bowther (leftleg (Richard), Jhn) pays: The left leg of Richard is not Joh's brother Leftleg (Richard is theated as a term & 7-> negation [indicates not strue] 41: Brother (x, y) Step 1 They are not identical 42 = Brother (leftleg (Rich and), John) Stepa Poredicate of 4, & 42 are same 3443 Both 4, & 42 have same number of argument = 2 Step4 Initialization of Subset Step 5 Plexale through argument of \$1 & \$2 \\ i=1 -> S, = 2 (x | leftleg(Richard)) 1=2 -> S = & (7 | John) Step 6 Final Substitution sid SUBST = ? (x | Lyfleg (Richard)); (y) John) ? Step 7 Interpretation: (a) Publitute y in SUBST (b) Sukitute 42 in SUBST => 7 Boother (leftleg (Richard), 30 hm) Off: Meaning: heftleg of Richard is not Brother