

Ex 1d)

$$F(x) = p(x) \wedge \exists y (q(y) \wedge \neg r(x,y))$$

1e) $\hat{=}$ relational division

basicmodel is the same inside the $\exists y$

Algebraic-
left right
x y x y

cont. max. x

relDiv: $\rho \div \pi(\sigma) =$ the orgs s.t. $\exists cont, st.$

all orgs

$(0,c) \notin r$
↑
org on cont

$\hat{=} \pi(\sigma)(\rho) =$ "all organizations"

basicmodel is the same inside the $\exists y$

Resolution calculus :

- different from the above, where conjunctive formulas played a big role.
- disjunctive clauses

