

Ex. Sheet 1, Exercise 1
 a-c) → Wednesday
 "simple" multiple formulas/examples

f) F(x,y) = ...
 3v: (v,x) ... (y,z) ... (u,w) ...

BANK: ...
 → pull ... out ...

3v: (v,x) ... (y,z) ... (u,w) ...

→ pull quantifiers in front!
 → any rule can be transformed into ...

"Prenex Literal Normal form" matrix

May 4-14:11

human-resistant
 other approach to f)

Reverse two quantifiers → pull them in front
 (logical equivalent transformation):

$F(x,y) := \exists v,w: r(v,x) \wedge r(w,y) \wedge s(x,y,w) \wedge q(x,w)$

• same as real formula on previous slide, but only 1 x ↓
 ⇒ pull quantifiers in front!
 ⇒ any rule can be transformed into

$\exists v,w: r(v,x) \wedge r(w,y) \wedge s(x,y,w) \wedge q(x,w)$
 "Prenex Literal Normal form" matrix

May 4-15:01

Slide 471: ... Handral & XSB-Darkles:

?- count(N, C, Cap, GoBou, A, P).

answers { ... }
 ~ 6 calls, 6 unifiers → base case
 ... }
 ... }
 ... }

?- count(N, C, N, GoBou, A, P).

→ { ... }
 ... }

May 4-15:38