61-

	NNF	bereinigt	Pränexnormalform	Skolemnormalform
$(\exists p(x,y)) \to (\forall y p(y,a))$	X	አ	X	χ,
$(\forall x p(a, x)) \land (\exists y p(y, a))$	V	V	×	
$(\forall x p(x,y)) \lor (\exists y p(y,y))$	V	·χ	1	X
$\forall x \exists y (p(a,x) \land p(x,y))$	V	V	/	X
$\forall x \exists z \forall y \neg (p(x,y) \lor p(x,z))$	X	シ	χ	X
$\forall x \forall y (p(x, a) \lor \neg p(x, y))$	V	V	√	✓
$\neg (p(x,x) \land p(x,y))$	χ	V	X	X
$\neg p(y,x) \lor p(x,y)$	V	V	V	✓

```
2. F = 4π 3y (ρ(y,ο,π) ← ν - 3 ± ρ(z,y,π) Λ ( ε(μ,ω))

= 4x 3y (ρ(y,ο,π) → ν 73 ± ρ(z,y,π) Λ γ3 ± ρ(z,y,π) → ρ(y,ο,π)) ( ε(μ,ω - ν ))

= 4x 3y ( (γρ(y,ο,π) ν γ 3 ± ρ(z,y,π) ν ρ(y,ο,π)) ( ε(μ,ω,π) ν ρ(y,ο,π)) ( ε(μ,ω,π) ν ρ(y,ο,π)) ( ε(μ,ω,π) ν ρ(y,ο,π)) Λ ( π ερ(z,y,π) ν ρ(y,ο,π)) ( ε(μ,ω,π)) ( ε(μ,ω,π)
```

a) Heapt ions norwal form

= 3x xy (pig) 1 (2 (a, x) v2 (xxx)) (NNF)

YW 3xy 32 (2 (a/w) V (73 (a/y)) 77 (x/2))

d) Sudemonalform

3 (77) (5/4), 5Kx (W), 4) /17 (SKW (W), a, SKZ (W,y)) 177 (y, SKX (W)), SKU)

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