

Σ17

$\forall x \ p(x) \rightarrow q(x)$

$p(a)$
 $q(b)$
 $\neg q(x)$
 $\exists \{x \rightarrow b\}$

1. Antwort "b"

$p(x_2) \rightarrow q(x_2)$

$\neg p(x_2)$ $q(x_2)$

$\exists \{x_2 \rightarrow a\}$ $\exists \{x_2 \rightarrow x\}$ 2. Antwort "a"

Nov 25-15:00

$\forall x: p(x) \rightarrow \exists y: p(y) \wedge f(x,y)$

$\forall x,y,z: f(x,y) \wedge f(y,z) \rightarrow ff(x,z)$

$p(john) \dots$
 $p(jack) \leftarrow$
 $f(john, jack)$

$\neg ff(john, X)$

$f(x_2, y_2) \wedge f(y_2, z_2) \rightarrow ff(x_2, z_2)$

$\neg (f(x_2, y_2) \wedge f(y_2, z_2))$ $ff(x_2, z_2)$
 $\exists x_2 \rightarrow john, z_2 = X$

$\neg f(x_2, y_2)$ $\neg f(y_2, z_2)$
 aus $x_2 \rightarrow john$
 $\exists y_2 \rightarrow jack$

$p(x_3) \rightarrow \exists y: f(x,y) \wedge p(y)$

$\neg p(x_3)$ $\exists y: f(x_3, y) \wedge p(y)$

$x_3 = y_2 = jack$
 \exists

$f(x_3, \cancel{p}(x_3)), p(\cancel{f_f}(x_2))$

$\exists y_2 = x_3, z_2 = \cancel{f_f}(x_3) = \cancel{f_f}(y_2)$

$z_2 = x$
 \rightarrow Antwort
 $X / \cancel{f_f}(y_2) = \cancel{f_f}(jack)$

Nov 25-15:34