

# Gruppenbeispiel

TES:

$f(x, f(y, z)) \rightarrow f(f(x, y), z)$	$f(e, x) \rightarrow x$
$f(x, e) \rightarrow x$	$i(i(x)) \rightarrow x$
$f(x, i(x)) \rightarrow e$	$f(i(x), x) \rightarrow e$
$f(f(x, y), i(y)) \rightarrow x$	$f(f(x, i(y)), y) \rightarrow x$
$i(e) \rightarrow e$	$i(f(x, y)) \rightarrow f(i(y), i(x))$

$$\frac{i(f(i(u), f(v, u)))}{f(i(f(v, u)), i^2(u))} \qquad i(f(x, y)) \rightarrow f(i(y), i(x)) \qquad \sigma = \{x/i(u), y/f(v, u)\}$$

$$f(f(i(u), i(v)), i^2(u)) \qquad i(f(x, y)) \rightarrow f(i(y), i(x)) \qquad \sigma = \{x/v, y/u\}$$

$$f(f(i(u), i(v)), u) \qquad i(i(x)) \rightarrow x \qquad \sigma = \{x/u\}$$
  

$$\frac{f(i(u), f(i(v), u))}{f(f(i(u), i(v)), u)} \qquad f(x, f(y, z)) \rightarrow f(f(x, y), z) \qquad \sigma = \{x/i(u), y/i(v), z/u\}$$