

Gruppenbeispiel

$$\begin{array}{llll}
 \text{TES: } f(f(x, y), z) & \rightarrow & f(x, f(y, z)) & f(i(x), f(x, y)) \rightarrow y \\
 f(x, e) & \rightarrow & x & f(e, x) \rightarrow x \\
 f(x, i(x)) & \rightarrow & e & f(i(x), x) \rightarrow e \\
 i(e) & \rightarrow & e & i(i(x)) \rightarrow x \\
 i(f(x, y)) & \rightarrow & f(i(y), i(x)) & f(x, f(i(x), y)) \rightarrow y
 \end{array}$$

$$\begin{array}{ll}
 \frac{i(f(i(u), f(v, u)))}{f(i(f(v, u)), i^2(u))} & i(f(x, y)) \rightarrow f(i(y), i(x)) \quad \sigma = \{x/i(u), y/f(v, u)\} \\
 \frac{f(f(i(u), i(v)), i^2(u))}{f(i(u), f(i(v), i^2(u)))} & i(f(x, y)) \rightarrow f(i(y), i(x)) \quad \sigma = \{x/v, y/u\} \\
 f(i(u), f(i(v), u)) & f(f(x, y), z) \rightarrow f(x, f(y, z)) \quad \sigma = \{x/i(u), y/i(v), z/i^2(u)\} \\
 & i(i(x)) \rightarrow x \quad \sigma = \{x/u\}
 \end{array}$$

$$\begin{array}{ll}
 \frac{f(f(i(u), i(v)), u)}{f(i(u), f(i(v), u))} & f(f(x, y), z) \rightarrow f(x, f(y, z)) \quad \sigma = \{x/i(u), y/i(v), z/u\}
 \end{array}$$