Group Example

i(f(i(u), f(v, u)))
$\overline{f(i(f(v,u)),i^2(u))})$
$f(\overline{f(i(u),i(v))},i^2(u))$
$f(f(i(u), i(v)), \overline{u)}$

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

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

$$\sigma = \{x/v, y/u\}$$

$$\sigma = \{x/u\}$$

 $\frac{f(\mathsf{i}(u), \mathsf{f}(\mathsf{i}(v), u))}{\mathsf{f}(\mathsf{f}(\mathsf{i}(u), \mathsf{i}(v)), u)}$

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