

## **inverse\_grp\_sig\_hom\_shift<sup>13,42</sup>**

$\forall g, h: \text{GrpSig}, f: \text{MonHom}(g, h).$

$\text{fun\_thru\_1op}(|g|; |h|; \sim; \sim; f) \Rightarrow \text{Inj}(|g|; |h|; f) \Rightarrow \text{Inverse}(|h|; *; e; \sim) \Rightarrow \text{Inverse}(|g|; *; e; \sim)$