

# t157\_relat\_1 (TMLawQh- MgvJTu4tvw33sQY5HVyQx5zq6Lyo)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (v1\_relat\_1 X2) \Rightarrow (k5\_relat\_1 (k5\_relat\_1 X2 X0) X1 = k5\_relat\_1 X2 (k3\_xboole\_0 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. (v1\_relat\_1 X0) \Rightarrow (k5\_relat\_1 X0 (k9\_xtuple\_0 X0) = X0) \quad (2)$$

## Theorem 1

$$\forall X0. \forall X1. (v1\_relat\_1 X1) \Rightarrow (k5\_relat\_1 X1 X0 = k5\_relat\_1 X1 (k3\_xboole\_0 (k9\_xtuple\_0 X1) X0))$$