

# t56\_funct\_5 (TMZobvthpxrTWDMUD- dosWkVHtJpxXaVoadj)

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Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1\_tarski X0 X1) \wedge (r1\_tarski X1 X2)) \Rightarrow (r1\_tarski X0 X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k1\_funct\_2 X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow (\exists X4. ((v1\_relat\_1 X4) \wedge (v1\_funct\_1 X4)) \wedge ((X3 = X4) \wedge ((k9\_xtuple\_0 X4 = X0) \wedge (r1\_tarski (k10\_xtuple\_0 X4) X1)))))) \quad (3)$$

**Theorem 1**

$$\forall X0. \forall X1. \forall X2. (r1\_tarski X0 X1) \Rightarrow (r1\_tarski (k1\_funct\_2 X2 X0) (k1\_funct\_2 X2 X1))$$