

t11\_funct\_3  
(TMHYGH6AMU4tRJyEJZbPHNr7dirznEmXC7Q)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k8\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_3 : \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (v1\_relat\_1 X1) \Rightarrow (r1\_tarski (k8\_relat\_1 X1 X0) (k9\_xtuple\_0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. ((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow ((v1\_relat\_1 (k1\_funct\_3 X0)) \wedge (v1\_funct\_1 (k1\_funct\_3 X0))) \quad (2)$$

Assume the following.

$$\forall X0. ((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1. ((v1\_relat\_1 X1) \wedge (v1\_funct\_1 X1)) \Rightarrow ((X1 = k1\_funct\_3 X0) \Leftrightarrow ((k9\_xtuple\_0 X1 = k1\_zfmisc\_1 (k9\_xtuple\_0 X0)) \wedge (\forall X2. (r1\_tarski X2 (k9\_xtuple\_0 X0)) \Rightarrow (k1\_funct\_1 X1 X2 = k7\_relat\_1 X0 X2)))))) \quad (3)$$

**Theorem 1**

$$\forall X0. \forall X1. ((v1\_relat\_1 X1) \wedge (v1\_funct\_1 X1)) \Rightarrow (r1\_tarski (k8\_relat\_1 (k1\_funct\_3 X1) X0) (k1\_zfmisc\_1 (k9\_xtuple\_0 X1)))$$