

t97\_funct\_2

(TMYPad62xXRiT7Q6CqBGiQabRZKkLjn5rjc)

October 27, 2020

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  $k7\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_relat\_1 X0) \Rightarrow (\forall X1.\forall X2.(r1\_tarski X1 X2) \Rightarrow (k7\_relat\_1 (k5\_relat\_1 X0 X2) X1 = k7\_relat\_1 X0 X1)) \quad (1)$$

**Theorem 1**

$$\forall X0.((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1.\forall X2.(r1\_tarski X2 X1) \Rightarrow (k7\_relat\_1 X0 X2 = k7\_relat\_1 (k5\_relat\_1 X0 X1) X2))$$