

t130\_funct\_7  
(TMF<sub>n</sub>6Hd3U3uQaPjtZwfzK7BRUc4VwBFdMEv)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_funct\_7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_funct\_4 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1.((v1\_relat\_1 X1) \wedge (v1\_funct\_1 X1)) \Rightarrow (\forall X2.(r1\_tarski (k9\_xtuple\_0 X1) X2) \Rightarrow (r1\_funct\_7 X0 (k1\_funct\_4 X0 X1) X2))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1.(v1\_relat\_1 X1) \Rightarrow ((v4\_relat\_1 X1 X0) \Leftrightarrow (r1\_tarski (k9\_xtuple\_0 X1) X0)) \quad (2)$$

**Theorem 1**

$$\forall X0. \forall X1.((v1\_relat\_1 X1) \wedge (v1\_funct\_1 X1)) \Rightarrow (\forall X2.((v1\_relat\_1 X2) \wedge ((v4\_relat\_1 X2 X0) \wedge (v1\_funct\_1 X2)))) \Rightarrow (r1\_funct\_7 X1 (k1\_funct\_4 X1 X2) X0))$$