

t138\_funct\_7 (TM-  
SLE7aDC9YhXdxBafbe595DmKZo4vMagMd)

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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  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k2\_funct\_7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1.(( \\ & \quad v1\_relat\_1 X1) \wedge (v1\_funct\_1 X1)) \Rightarrow (\forall X2. \forall X3. (r1\_tarski \\ & X1 X0) \Rightarrow ((X2 \in k9\_xtuple\_0 X1) \vee (r1\_tarski X1 (k2\_funct\_7 X0 X2 X3)))))) \\ & \hspace{15em} (1) \end{aligned}$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1.(( \\ & \quad v1\_relat\_1 X1) \wedge (v1\_funct\_1 X1)) \Rightarrow (\forall X2. \forall X3. (r1\_tarski \\ & X0 X1) \Rightarrow ((X2 \in k9\_xtuple\_0 X0) \vee (r1\_tarski X0 (k2\_funct\_7 X1 X2 X3)))))) \end{aligned}$$