

# t52\_funct\_5 (TMRdRdkADMnBmHDdZGM- hazTRwhf1d1GjiaW)

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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  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_5 : \iota \Rightarrow \iota$  be given. Let  $k2\_funct\_5 : \iota \Rightarrow \iota$  be given. Let  $k4\_funct\_5 : \iota \Rightarrow \iota$  be given. Let  $k3\_funct\_5 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1\_relat\_1 X2) \wedge (v1\_funct\_1 \\ & X2)) \Rightarrow ((r1\_tarski (k9\_xtuple\_0 X2) (k2\_zfmisc\_1 X0 X1)) \Rightarrow ((k2\_funct\_5 \\ & (k1\_funct\_5 X2) = X2) \wedge (k4\_funct\_5 (k3\_funct\_5 X2) = X2))) \end{aligned} \quad (1)$$

## Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1\_relat\_1 X2) \wedge (v1\_funct\_1 \\ & X2)) \Rightarrow (\forall X3. ((v1\_relat\_1 X3) \wedge (v1\_funct\_1 X3)) \Rightarrow (((r1\_tarski \\ & (k9\_xtuple\_0 X2) (k2\_zfmisc\_1 X0 X1)) \wedge ((r1\_tarski (k9\_xtuple\_0 \\ & X3) (k2\_zfmisc\_1 X0 X1)) \wedge (k1\_funct\_5 X2 = k1\_funct\_5 X3))) \Rightarrow (X2 = \\ & X3))) \end{aligned}$$