t53_funct_5 (TMb9eWo9iL5v1Z9DL2QpaFoWzF2tZ9j3BaA)

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

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

Theorem 1

$$\forall X0.\forall X1.\forall X2.((v1\_relat\_1\ X2) \wedge (v1\_funct\_1\ X2)) \Rightarrow (\forall X3.((v1\_relat\_1\ X3) \wedge (v1\_funct\_1\ X3)) \Rightarrow (((r1\_tarski\ (k9\_xtuple\_0\ X2)\ (k2\_zfmisc\_1\ X0\ X1)) \wedge ((r1\_tarski\ (k9\_xtuple\_0\ X3)\ (k2\_zfmisc\_1\ X0\ X1)) \wedge (k3\_funct\_5\ X2 = k3\_funct\_5\ X3))) \Rightarrow (X2 = X3)))$$