t11_funct_5 (TMdxCPYqn-tymh4kvdvtLGFXVDSX35SFw2ug)

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Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k10\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.(v1\_relat\_1\ X2) \Rightarrow ((r1\_tarski\ X2\ (k2\_zfmisc\_1\ X0\ X1)) \Rightarrow ((r1\_tarski\ (k9\_xtuple\_0\ X2)\ X0) \wedge (r1\_tarski\ (k10\_xtuple\_0\ X2)\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ X1)) \Leftrightarrow (r1\_tarski\ X0\ X1) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))) \Rightarrow (v1\_relat\_1\ X2) \tag{3}$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.(r1\_tarski\ X0\ (k2\_zfmisc\_1\ X1\ X2)) \Rightarrow ((r1\_tarski\ (k9\_xtuple\_0\ X0)\ X1) \wedge (r1\_tarski\ (k10\_xtuple\_0\ X0)\ X2))$$