t65_group_9 (TMThKSTHm8yctCrT3vbiUyPzHa69q8xdo2m)

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Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_group\_9 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_group\_9 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.(m2\_finseq\_1\ X2\ X0) \Rightarrow (\forall X3.\ (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ X1)) \Rightarrow (\forall X4.((v1\_funct\_1\ X4) \wedge ((v1\_funct\_2\ X4\ X0\ (k1\_funct\_2\ X1\ X1)) \wedge (m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ (k1\_funct\_2\ X1\ X1)))))) \Rightarrow ((r1\_group\_9\ X0\ X1\ X4\ X3) \Rightarrow (r1\_tarski\ (k7\_relset\_1\ X1\ X1\ (k2\_group\_9\ X0\ X1\ X4\ X2)\ X3)\ X3)))) \tag{1}$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ X0\ (k1\_funct\_2\ X1\ X1)) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ (k1\_funct\_2\ X1\ X1)))))) \Rightarrow (\forall X3.(m2\_finseq\_1\ X3\ X0) \Rightarrow (\forall X4.\ (m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ X1)) \Rightarrow ((r1\_group\_9\ X0\ X1\ X2\ X4) \Rightarrow (r1\_tarski\ (k7\_relset\_1\ X1\ X1\ (k2\_group\_9\ X0\ X1\ X2\ X3)\ X4)\ X4))))$$