t75_zf_lang1 (TMM-Megh6aJnTQ6Wo8SdWpoUfGrVNirCChBS)

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Let $v1\_zf\_lang : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zf\_lang : \iota$ 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 $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_zf\_model : \iota \Rightarrow \iota$ be given. Let $k3\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_zf\_model : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((v1\_zf\_lang\ X1) \wedge (m2\_finseq\_1\ X1\ k5\_numbers)) \Rightarrow (\forall X2.((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ k1\_zf\_lang\ X0) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_zf\_lang\ X0))))) \Rightarrow (\forall X3.((v1\_funct\_1\ X3) \wedge ((v1\_funct\_2\ X3\ k1\_zf\_lang\ X0) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_zf\_lang\ X0))))) \Rightarrow (((\forall X4.(m2\_subset\_1\ X4\ k5\_numbers\ k1\_zf\_lang) \Rightarrow (\neg(k3\_funct\_2\ k1\_zf\_lang\ X0\ X2\ X4 \neq k3\_funct\_2\ k1\_zf\_lang\ X0\ X3\ X4) \wedge (X4 \in k2\_zf\_model\ X1))) \wedge (r1\_zf\_model\ X0\ X2\ X1)) \Rightarrow (r1\_zf\_model\ X0\ X3\ X1))))) \tag{1}$$

Theorem 1

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (\forall X1.(\neg v1\_xboole\_0\ X1) \Rightarrow (\forall X2.((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ k1\_zf\_lang\ X1) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_zf\_lang\ X1))))) \Rightarrow (\forall X3.((v1\_funct\_1\ X3) \wedge ((v1\_funct\_2\ X3\ k1\_zf\_lang\ X1) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_zf\_lang\ X1))))) \Rightarrow (((\forall X4.(m2\_subset\_1\ X4\ k5\_numbers\ k1\_zf\_lang) \Rightarrow ((X4 \in k2\_zf\_model\ X0) \Rightarrow (k3\_funct\_2\ k1\_zf\_lang\ X1\ X3\ X4 = k3\_funct\_2\ k1\_zf\_lang\ X1\ X2\ X4))) \wedge (r1\_zf\_model\ X1\ X2\ X0)) \Rightarrow (r1\_zf\_model\ X1\ X3\ X0)))))$$