t9_zf_model (TMHSo-Hzu2U5V5Qq9hRAK1RSuXh9HASg2VeW)

October 27, 2020

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 $v4\_zf\_lang : \iota \Rightarrow o$ 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 $k5\_zf\_model : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k20\_zf\_lang : \iota \Rightarrow \iota$ be given. Let $k6\_zf\_lang : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((v1\_zf\_lang\ X1) \wedge (m2\_finseq\_1\ X1\ k5\_numbers)) \Rightarrow (\forall X2.((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ k1\_zf\_lang\ X0) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_zf\_lang\ X0))))) \Rightarrow ((\neg X2 \in k5\_zf\_model\ X1\ X0) \Leftrightarrow (X2 \in k5\_zf\_model\ (k6\_zf\_lang\ X1)\ X0)))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow ((v4\_zf\_lang\ X0) \Rightarrow (\forall X1.((v1\_zf\_lang\ X1) \wedge (m2\_finseq\_1\ X1\ k5\_numbers)) \Rightarrow ((X1 = k20\_zf\_lang\ X0) \Leftrightarrow (k6\_zf\_lang\ X1 = X0)))) \tag{2}$$

Assume the following.

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow ((v4\_zf\_lang\ X0) \Leftrightarrow (\exists X1.((v1\_zf\_lang\ X1) \wedge (m2\_finseq\_1\ X1\ k5\_numbers)) \wedge (X0 = k6\_zf\_lang\ X1))) \tag{3}$$

Theorem 1

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (\forall X1.(\neg v1\_xboole\_0\ X1) \Rightarrow ((v4\_zf\_lang\ X0) \Rightarrow (\forall X2.((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ k1\_zf\_lang\ X1) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_zf\_lang\ X1))))) \Rightarrow ((\neg X2 \in k5\_zf\_model\ (k20\_zf\_lang\ X0)\ X1) \Leftrightarrow (X2 \in k5\_zf\_model\ X0\ X1)))))$$