t44_zf_lang (TMJwnYK-MzZ48rn7tMKCAxjnrhKY8QDe2csX)

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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 $v6\_zf\_lang : \iota \Rightarrow o$ be given. Let $k8\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k23\_zf\_lang : \iota \Rightarrow \iota$ be given. Let $k24\_zf\_lang : \iota \Rightarrow \iota$ be given. Let $v11\_zf\_lang : \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zf\_lang : \iota$ be given. Let $k13\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow ((v6\_zf\_lang\ X0) \vee (v11\_zf\_lang\ X0)) \Rightarrow (\forall X1.((v1\_zf\_lang\ X1) \wedge (m2\_finseq\_1\ X1\ k5\_numbers)) \Rightarrow (((v6\_zf\_lang\ X0) \Rightarrow ((X1 = k24\_zf\_lang\ X0) \Leftrightarrow (\exists X2.(m2\_subset\_1\ X2\ k5\_numbers\ k1\_zf\_lang) \wedge (k8\_zf\_lang\ X2\ X1 = X0)))) \wedge ((\neg v6\_zf\_lang\ X0) \Rightarrow ((X1 = k24\_zf\_lang\ X0) \Leftrightarrow (\exists X2.(m2\_subset\_1\ X2\ k5\_numbers\ k1\_zf\_lang) \wedge (k13\_zf\_lang\ X2\ X1 = X0))))))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow ((v6\_zf\_lang\ X0) \vee (v11\_zf\_lang\ X0)) \Rightarrow (\forall X1.(m2\_subset\_1\ X1\ k5\_numbers\ k1\_zf\_lang) \Rightarrow (((v6\_zf\_lang\ X0) \Rightarrow ((X1 = k23\_zf\_lang\ X0) \Leftrightarrow (\exists X2.((v1\_zf\_lang\ X2) \wedge (m2\_finseq\_1\ X2\ k5\_numbers)) \wedge (k8\_zf\_lang\ X1\ X2 = X0)))) \wedge ((\neg v6\_zf\_lang\ X0) \Rightarrow ((X1 = k23\_zf\_lang\ X0) \Leftrightarrow (\exists X2.((v1\_zf\_lang\ X2) \wedge (m2\_finseq\_1\ X2\ k5\_numbers)) \wedge (k13\_zf\_lang\ X1\ X2 = X0))))))) \tag{2}$$

Assume the following.

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow ((v6\_zf\_lang\ X0) \Leftrightarrow (\exists X1.(m2\_subset\_1\ X1\ k5\_numbers\ k1\_zf\_lang) \wedge (\exists X2.((v1\_zf\_lang\ X2) \wedge (m2\_finseq\_1\ X2\ k5\_numbers)) \wedge (X0 = k8\_zf\_lang\ X1\ X2)))) \tag{3}$$

Theorem 1

$$\forall X0.((v1\_zf\_lang\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow ((v6\_zf\_lang\ X0) \Rightarrow (X0 = k8\_zf\_lang\ (k23\_zf\_lang\ X0)\ (k24\_zf\_lang\ X0)))$$