

t31\_zf\_lang1  
(TMV3GVDDpDUDXwLEBDeVUGu5zaZ9d6sjZzX)

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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  $k20\_zf\_lang : \iota \Rightarrow \iota$  be given. Let  $k11\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_zf\_lang : \iota \Rightarrow \iota$  be given. Let  $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (k20\_zf\_lang (k6\_zf\_lang X0) = X0) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m2\_finseq\_1 X1 X0) \Leftrightarrow (m1\_finseq\_1 X1 X0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (((v1\_zf\_lang X0) \wedge (m1\_finseq\_1 X0 k5\_numbers)) \wedge ((v1\_zf\_lang X1) \wedge (m1\_finseq\_1 X1 k5\_numbers))) \Rightarrow (v1\_zf\_lang (k7\_zf\_lang X0 X1)) \quad (3)$$

Assume the following.

$$\forall X0. ((v1\_zf\_lang X0) \wedge (m1\_finseq\_1 X0 k5\_numbers)) \Rightarrow (v1\_zf\_lang (k6\_zf\_lang X0)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. ((m1\_finseq\_1 X0 k5\_numbers) \wedge (m1\_finseq\_1 X1 k5\_numbers)) \Rightarrow (m2\_finseq\_1 (k7\_zf\_lang X0 X1) k5\_numbers) \quad (5)$$

Assume the following.

$$\forall X0. (m1\_finseq\_1 X0 k5\_numbers) \Rightarrow (m2\_finseq\_1 (k6\_zf\_lang X0) k5\_numbers) \quad (6)$$

Assume the following.

$$\forall X0. ((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\forall X1. ((v1\_zf\_lang X1) \wedge (m2\_finseq\_1 X1 k5\_numbers)) \Rightarrow (k11\_zf\_lang X0 X1 = k6\_zf\_lang (k7\_zf\_lang X0 (k6\_zf\_lang X1)))) \quad (7)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\forall X1. \\ & ((v1\_zf\_lang X1) \wedge (m2\_finseq\_1 X1 k5\_numbers)) \Rightarrow (k20\_zf\_lang \\ & (k11\_zf\_lang X0 X1) = k7\_zf\_lang X0 (k6\_zf\_lang X1))) \end{aligned}$$