

# t3\_zf\_lang1 (TMPEfdWjATYBxmqrwxAB- biPMKZFHGy9fDyfa)

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  $k20\_zf\_lang : \iota \Rightarrow \iota$  be given. Let  $k6\_zf\_lang : \iota \Rightarrow \iota$  be given. Let  $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v4\_zf\_lang : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (m2\_finseq\_1 X1 X0) \Leftrightarrow (m1\_finseq\_1 X1 X0) \quad (1)$$

Assume the following.

$$\forall X0. ((v1\_zf\_lang X0) \wedge (m1\_finseq\_1 X0 k5\_numbers)) \Rightarrow (v1\_zf\_lang (k6\_zf\_lang X0)) \quad (2)$$

Assume the following.

$$\forall X0. (m1\_finseq\_1 X0 k5\_numbers) \Rightarrow (m2\_finseq\_1 (k6\_zf\_lang X0) k5\_numbers) \quad (3)$$

Assume the following.

$$\forall X0. ((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ((v4\_zf\_lang X0) \Rightarrow (\forall X1. ((v1\_zf\_lang X1) \wedge (m2\_finseq\_1 X1 k5\_numbers)) \Rightarrow ((X1 = k20\_zf\_lang X0) \Leftrightarrow (k6\_zf\_lang X1 = X0)))) \quad (4)$$

Assume the following.

$$\forall X0. ((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow ((v4\_zf\_lang X0) \Leftrightarrow (\exists X1. ((v1\_zf\_lang X1) \wedge (m2\_finseq\_1 X1 k5\_numbers)) \wedge (X0 = k6\_zf\_lang X1))) \quad (5)$$

## Theorem 1

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