

t136\_zf\_lang1  
(TMMb6JbeV9ja9DhH8gZXZSSueWNdfGaCfSL)

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Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k1\_zf\_lang : \iota$  be given. Let  $k3\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $np\_3 : \iota$  be given. Let  $np\_4 : \iota$  be given. Assume the following.

$$\forall X0.(m2\_subset\_1 X0 k5\_numbers k1\_zf\_lang) \Rightarrow ((X0 \neq k6\_numbers) \wedge ((X0 \neq np\_1) \wedge ((X0 \neq np\_2) \wedge ((X0 \neq np\_3) \wedge (X0 \neq np\_4)))))) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. (X5 = k3\_enumset1 X0 X1 X2 X3 X4) \Leftrightarrow (\forall X6.(X6 \in X5) \Leftrightarrow (\neg(X6 \neq X0) \wedge ((X6 \neq X1) \wedge ((X6 \neq X2) \wedge ((X6 \neq X3) \wedge (X6 \neq X4)))))) \quad (2)$$

**Theorem 1**

$$\forall X0.(m2\_subset\_1 X0 k5\_numbers k1\_zf\_lang) \Rightarrow (\neg X0 \in k3\_enumset1 k6\_numbers np\_1 np\_2 np\_3 np\_4)$$