

t13\_zf\_refle (TM-  
MDYK7RCa7vSBAo6xKot26tUvXKtR6VjNK)

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Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v5\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_ordinal2 : \iota \Rightarrow o$  be given. Let  $k5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_classes1 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_ordinal1 : \iota \Rightarrow \iota$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Rightarrow (r1\_tarski (k2\_ordinal1 X0) (k2\_ordinal1 X1)) \quad (1)$$

Assume the following.

$$\forall X0. (v3\_ordinal1 X0) \Rightarrow (\forall X1. (r1\_tarski X1 X0) \Rightarrow (k2\_ordinal1 X1 = X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (v1\_relat\_1 X1) \Rightarrow ((r1\_tarski (k9\_xtuple\_0 X1) X0) \Rightarrow (k5\_relat\_1 X1 X0 = X1)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (v1\_relat\_1 X1) \Rightarrow (r1\_tarski (k9\_xtuple\_0 (k5\_relat\_1 X1 X0)) (k9\_xtuple\_0 X1)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (v1\_relat\_1 X1) \Rightarrow (r1\_tarski (k9\_xtuple\_0 (k5\_relat\_1 X1 X0)) X0) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((v1\_relat\_1 X2) \wedge (v1\_funct\_1 X2)) \Rightarrow ((r1\_tarski X0 X1) \Rightarrow ((k5\_relat\_1 (k5\_relat\_1 X2 X0) X1 = k5\_relat\_1 X2 X0) \wedge (k5\_relat\_1 (k5\_relat\_1 X2 X1) X0 = k5\_relat\_1 X2 X0))) \quad (6)$$

Assume the following.

$$\forall X0.(v3\_ordinal1\ X0)\Rightarrow(r1\_tarski\ X0\ (k4\_classes1\ X0)) \quad (7)$$

Assume the following.

$$\forall X0.(v3\_ordinal1\ X0)\Rightarrow(k2\_ordinal1\ (k4\_classes1\ X0) = X0) \quad (8)$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0)\wedge((v1\_funct\_1\ X0)\wedge(v5\_ordinal1\ X0)))\Rightarrow \\ (v3\_ordinal1\ (k9\_xtuple\_0\ X0)) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.(v1\_relat\_1\ X0)\Rightarrow(v1\_relat\_1\ (k5\_relat\_1 \\ X0\ X1)) \quad (10)$$

**Theorem 1**

$$\forall X0.(v3\_ordinal1\ X0)\Rightarrow(\forall X1.((v1\_relat\_1\ X1)\wedge(( \\ v5\_ordinal1\ X1)\wedge((v1\_funct\_1\ X1)\wedge(v1\_ordinal2\ X1))))\Rightarrow(k5\_relat\_1 \\ X1\ (k4\_classes1\ X0) = k5\_relat\_1\ X1\ X0))$$