

# t49\_ordinal2 (TMMgCDLte- niEsoouK4zaAXckmaaGnH5mN3U)

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Let  $v5\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_ordinal2 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k4\_ordinal2 : \iota \Rightarrow \iota$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k3\_ordinal2 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.((v5\_ordinal1 X0) \wedge ((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge (v1\_ordinal2 X0)))) \Rightarrow (\forall X1.(X1 \in k10\_xtuple\_0 X0) \Rightarrow (v3\_ordinal1 X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v3\_ordinal1 X0) \Rightarrow (\forall X1.(X0 \in X1) \Rightarrow (X0 \in k3\_ordinal2 X1)) \quad (2)$$

Assume the following.

$$\forall X0.((v5\_ordinal1 X0) \wedge ((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0))) \Rightarrow (k4\_ordinal2 X0 = k3\_ordinal2 (k10\_xtuple\_0 X0)) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(r1\_tarski X0 X1) \Leftrightarrow (\forall X2.(X2 \in X0) \Rightarrow (X2 \in X1)) \quad (4)$$

## Theorem 1

$$\forall X0.((v5\_ordinal1 X0) \wedge ((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge (v1\_ordinal2 X0)))) \Rightarrow (r1\_tarski (k10\_xtuple\_0 X0) (k4\_ordinal2 X0))$$