

t48\_ordinal6 (TMZX-  
oWYq1VtNb5f636uquVgjojEn6aMmYZR)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v5\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v3\_ordinal6 : \iota \Rightarrow o$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k7\_ordinal6 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_ordinal2 : \iota \Rightarrow o$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v2\_ordinal2 : \iota \Rightarrow o$  be given. Let  $r1\_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_ordinal6 : \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $r1\_abian : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1\_subset\_1 X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v1\_relat\_1 X0) \wedge ((v5\_ordinal1 X0) \wedge ((v1\_funct\_1 \\ X0) \wedge (v1\_ordinal2 X0)))) \Rightarrow (\forall X1. (v3\_ordinal1 X1) \Rightarrow (((v2\_ordinal2 \\ X0) \wedge (X1 \in k9\_xtuple\_0 X0)) \Rightarrow (r1\_ordinal1 X1 (k1\_funct\_1 X0 X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. ((v3\_ordinal1 X0) \wedge (v3\_ordinal1 X1)) \Rightarrow (r1\_ordinal1 X0 X1) \Leftrightarrow (r1\_tarski X0 X1) \quad (3)$$

Assume the following.

$$\forall X0. ((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge (v5\_ordinal1 X0))) \Rightarrow (v3\_ordinal1 (k9\_xtuple\_0 X0)) \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (((v5\_ordinal1 X0) \wedge ((v1\_relat\_1 X0) \wedge \\ (v1\_funct\_1 X0) \wedge (v1\_ordinal2 X0)))) \wedge (v3\_ordinal1 X1) \Rightarrow (v3\_ordinal1 \\ (k1\_funct\_1 X0 X1)) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.(v1\_relat\_1 (k2\_ordinal6 X0) \wedge ((v1\_funct\_1 (k2\_ordinal6 X0) \wedge (v5\_ordinal1 (k2\_ordinal6 X0)) \wedge ((v1\_ordinal2 (k2\_ordinal6 X0)) \wedge (v2\_ordinal2 (k2\_ordinal6 X0)))))) \quad (6)$$

Assume the following.

$$\forall X0.((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge ((v5\_ordinal1 X0) \wedge (v3\_ordinal6 X0)))) \Rightarrow ((v1\_relat\_1 (k7\_ordinal6 X0)) \wedge ((v1\_funct\_1 (k7\_ordinal6 X0)) \wedge ((v5\_ordinal1 (k7\_ordinal6 X0)) \wedge (v1\_ordinal2 (k7\_ordinal6 X0)))))) \quad (7)$$

Assume the following.

$$\forall X0.((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge ((v5\_ordinal1 X0) \wedge (v3\_ordinal6 X0)))) \Rightarrow (k7\_ordinal6 X0 = k2\_ordinal6 (ReplSep (toset (\lambda X1 : \iota.m1\_subset\_1 X1 (k9\_xtuple\_0 (k1\_funct\_1 X0 k6\_numbers)))) (\lambda X1 : \iota.(X1 \in k9\_xtuple\_0 (k1\_funct\_1 X0 k6\_numbers)) \wedge (\forall X2.((v1\_relat\_1 X2) \wedge ((v1\_funct\_1 X2) \wedge ((v5\_ordinal1 X2) \wedge (v1\_ordinal2 X2)))) \Rightarrow ((X2 \in k10\_xtuple\_0 X0) \Rightarrow (r1\_abian X1 X2)))))) (\lambda X1 : \iota.X1))) \quad (8)$$

Assume the following.

$$\forall X0.(v3\_ordinal1 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 X0) \Rightarrow (v3\_ordinal1 X1)) \quad (9)$$

**Theorem 1**

$$\forall X0.\forall X1.((v1\_relat\_1 X1) \wedge ((v1\_funct\_1 X1) \wedge ((v5\_ordinal1 X1) \wedge (v3\_ordinal6 X1)))) \Rightarrow ((X0 \in k9\_xtuple\_0 (k7\_ordinal6 X1)) \Rightarrow (r1\_tarSKI X0 (k1\_funct\_1 (k7\_ordinal6 X1) X0)))$$