

## t28\_ordinal6

(TMajVcBWjY2tPxUxt8JnrcnEVLCToJVEjKh)

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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  $v1\_ordinal2 : \iota \Rightarrow o$  be given. Let  $k2\_ordinal1 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $r1\_abian : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (X1 = k2\_ordinal1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow ((X2 \in X0) \wedge (v3\_ordinal1 X2))) \quad (1)$$

Assume the following.

$$\forall X0. (v5\_ordinal1 X0) \Leftrightarrow (v3\_ordinal1 (k9\_xtuple\_0 X0)) \quad (2)$$

Assume the following.

$$\forall X0. (v3\_ordinal1 X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 X0) \Rightarrow (v3\_ordinal1 X1)) \quad (3)$$

### Theorem 1

$$\begin{aligned} & \forall X0. ((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge ((v5\_ordinal1 \\ & X0) \wedge (v1\_ordinal2 X0)))) \Rightarrow (k2\_ordinal1 (ReplSep (toset (\lambda X1 : \\ & \iota. m1\_subset\_1 X1 (k9\_xtuple\_0 X0))) (\lambda X1 : \iota. r1\_abian X1 \\ & X0) (\lambda X1 : \iota. X1))) = ReplSep (toset (\lambda X1 : \iota. m1\_subset\_1 \\ & X1 (k9\_xtuple\_0 X0))) (\lambda X1 : \iota. r1\_abian X1 X0) (\lambda X1 : \iota. \\ & X1)) \end{aligned}$$