

t18_ordinal5 (TMGFcFVTC- qttMw6Dd19ZBJeunR8TXuMV6Ag)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_ordinal5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k12_ordinal2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. 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 $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (k1_ordinal5 X0 np_1 = X0) \quad (1)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(v3_ordinal1 X1) \Rightarrow (k1_ordinal5 X0 (k1_ordinal1 X1) = k12_ordinal2 X0 (k1_ordinal5 X0 X1))) \quad (2)$$

Assume the following.

$$\forall X0 : \iota \Rightarrow \iota. \forall X1. \exists X2. ((v5_ordinal1 X2) \wedge ((v1_relat_1 X2) \wedge ((v1_funct_1 X2) \wedge (v1_ordinal2 X2)))) \wedge ((k9_xtuple_0 X2 = X1) \wedge (\forall X3.(v3_ordinal1 X3) \Rightarrow ((X3 \in X1) \Rightarrow (k1_funct_1 X2 X3 = X0 X3)))) \quad (3)$$

Assume the following.

$$k1_ordinal1 np_1 = np_2 \quad (4)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v5_ordinal1 X0))) \Rightarrow (v3_ordinal1 (k9_xtuple_0 X0)) \quad (5)$$

Theorem 1 $\forall X0.(v3_ordinal1 X0) \Rightarrow (k1_ordinal5 X0 np_2 = k12_ordinal2 X0 X0)$.