

t35_ordinal1 (TMHofiBGBhFNESxE- QbTxB7kshY21VkGEPD5)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $r2_xbool_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r3_xbool_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(v3_ordinal1 X1) \Rightarrow (r3_xbool_0 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(\neg(\neg r2_xbool_0 X0 X1) \wedge ((X0 \neq X1) \wedge (\neg r2_xbool_0 X1 X0))) \Leftrightarrow (r3_xbool_0 X0 X1) \quad (2)$$

Theorem 1

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(v3_ordinal1 X1) \Rightarrow (\neg(\neg r2_xbool_0 X0 X1) \wedge ((X0 \neq X1) \wedge (\neg r2_xbool_0 X1 X0))))$$