

t3_pencil_1 (TMXNdRHA-
Jio1fSLP2EpiaxMGK922eJX9VZh)

October 27, 2020

Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_2 : \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(r1_ordinal1\ np_2\ (k1_card_1\ X0)) \Leftrightarrow (\exists X1.\exists X2. (X1 \in X0) \wedge ((X2 \in X0) \wedge (X1 \neq X2))) \quad (1)$$

Theorem 1

$$\forall X0.(r1_ordinal1\ np_2\ (k1_card_1\ X0)) \Rightarrow (\forall X1.\exists X2. (X2 \in X0) \wedge (X1 \neq X2))$$