

t5_scmyciel (TMFd-
HVaAHCQp8DAAYhLN7v2c8oy6eGFqguP)

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Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_3 : \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(r1_ordinal1\ np_3\ (k1_card_1\ X0)) \Leftrightarrow (\exists X1.\exists X2. \\ & \exists X3.(X1 \in X0) \wedge ((X2 \in X0) \wedge ((X3 \in X0) \wedge ((X1 \neq X2) \wedge ((X1 \neq X3) \wedge \\ & \quad X2 \neq X3)))))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} & \forall X0.\forall X1.\neg(r1_ordinal1\ np_3\ (k1_card_1\ X0)) \wedge (\forall X2. \\ & \forall X3.\neg(X2 \in X0) \wedge ((X3 \in X0) \wedge ((X2 \neq X1) \wedge ((X3 \neq X1) \wedge (X2 \neq X3)))))) \end{aligned}$$