

t8_card_1
(TMd3s2mdDj7JfuPe47vjHmeKw9Wh5ctU2Pp)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Let $r2_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.v1_card_1 (k1_card_1 X0) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(v1_card_1 X1) \Rightarrow ((X1 = k1_card_1 X0) \Leftrightarrow (r2_wellord2 X0 X1)) \tag{2}$$

Assume the following.

$$\forall X0.(v1_card_1 X0) \Leftrightarrow (\exists X1.(v3_ordinal1 X1) \wedge ((X0 = X1) \wedge (\forall X2.(v3_ordinal1 X2) \Rightarrow ((r2_wellord2 X2 X1) \Rightarrow (r1_ordinal1 X1 X2)))))) \tag{3}$$

Theorem 1 $\forall X0.(v3_ordinal1 X0) \Rightarrow (r1_ordinal1 (k1_card_1 X0) X0)$.