

t5_card_1 (TMG-
DuDNx44aPaYQ7Y5MUp8QPQd9GMiiGJPb)

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

$$\forall X0. \forall X1. \forall X2. ((r2_wellord2 X0 X1) \wedge (r2_wellord2 X1 X2)) \Rightarrow (r2_wellord2 X0 X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r2_wellord2 X0 X1) \Rightarrow (r2_wellord2 X1 X0) \quad (2)$$

Assume the following.

$$\forall X0. v1_card_1 (k1_card_1 X0) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (v1_card_1 X1) \Rightarrow ((X1 = k1_card_1 X0) \Leftrightarrow (r2_wellord2 X0 X1)) \quad (4)$$

Theorem 1

$$\forall X0. \forall X1. (r2_wellord2 X0 X1) \Leftrightarrow (k1_card_1 X0 = k1_card_1 X1)$$