

t61_funct_5
(TMdQGPQ6J6qSBmMiTm91VwvYagDyeFKK5Be)

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Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. ((r2_wellord2 X0 X1) \wedge (r2_wellord2 X2 X3)) \Rightarrow ((r2_wellord2 (k1_funct_2 X0 X2) (k1_funct_2 X1 X3)) \wedge (k1_card_1 (k1_funct_2 X0 X2) = k1_card_1 (k1_funct_2 X1 X3))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r2_wellord2 X0 X1) \Leftrightarrow (k1_card_1 X0 = k1_card_1 X1) \quad (2)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. \forall X3. ((k1_card_1 X0 = k1_card_1 X1) \wedge (k1_card_1 X2 = k1_card_1 X3)) \Rightarrow (k1_card_1 (k1_funct_2 X0 X2) = k1_card_1 (k1_funct_2 X1 X3))$$