

l21_compos_1 (TM- MUhucTo3WVKNwZPAb7NqbagyrMK5EnCPZ)

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Let $l1_compos_1 : \iota \Rightarrow o$ be given. Let $k62_valued_1 : \iota \Rightarrow \iota$ be given. Let $k4_compos_1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v1_afinsq_1 : \iota \Rightarrow o$ be given. Let $k7_nat_d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_zfmisc_1 : \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_compos_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 X0) \wedge ((\neg v1_xboole_0 X0) \wedge ((v1_finset_1 X0) \wedge (v1_afinsq_1 X0)))))) \Rightarrow (k62_valued_1 X0 = k7_nat_d (k5_card_1 X0) np_1) \quad (1)$$

Assume the following.

$$\forall X0.(l1_compos_1 X0) \Rightarrow (k7_nat_d (k5_card_1 (k4_compos_1 X0)) np_1 = k6_numbers) \quad (2)$$

Assume the following.

$$\forall X0.(l1_compos_1 X0) \Rightarrow ((\neg v1_xboole_0 (k4_compos_1 X0)) \wedge ((v1_zfmisc_1 (k4_compos_1 X0)) \wedge ((v1_relat_1 (k4_compos_1 X0)) \wedge ((v4_relat_1 (k4_compos_1 X0) k5_numbers) \wedge ((v5_relat_1 (k4_compos_1 X0) (u1_compos_1 X0)) \wedge ((v1_funct_1 (k4_compos_1 X0)) \wedge ((v1_finset_1 (k4_compos_1 X0)) \wedge (v1_afinsq_1 (k4_compos_1 X0)))))))))) \quad (3)$$

Theorem 1

$$\forall X0.(l1_compos_1 X0) \Rightarrow (k62_valued_1 (k4_compos_1 X0) = k6_numbers)$$