

t7_idea_1

(TMd4ioSMuYPsfaGph5K6jScAf6egLxoqkbo)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v3_card_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_margrel1 : \iota$ be given. Let $k2_idea_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k2_binarith : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1_finseq_1 X1 X0) \Rightarrow ((v1_relat_1 X1) \wedge (v1_funct_1 X1) \wedge (v1_finseq_1 X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((v1_relat_1 X1) \wedge ((v5_relat_1 X1 X0) \wedge (v1_funct_1 X1))) \Rightarrow (m1_subset_1 (k7_partfun1 X0 X1 X2) X0) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((m1_subset_1 X0 k5_numbers) \wedge (((v3_card_1 X1 X0) \wedge (m1_finseq_1 X1 k6_margrel1)) \wedge ((v3_card_1 X2 X0) \wedge (m1_finseq_1 X2 k6_margrel1)))) \Rightarrow ((v3_card_1 (k2_idea_1 X0 X1 X2) X0) \wedge (m2_finseq_1 (k2_idea_1 X0 X1 X2) k6_margrel1)) \quad (4)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1. ((v3_card_1 X1 X0) \wedge (m2_finseq_1 X1 k6_margrel1)) \Rightarrow (\forall X2. ((v3_card_1 X2 X0) \wedge (m2_finseq_1 X2 k6_margrel1)) \Rightarrow (\forall X3. ((v3_card_1 X3 X0) \wedge (m2_finseq_1 X3 k6_margrel1)) \Rightarrow ((X3 = k2_idea_1 X0 X1 X2) \Leftrightarrow (\forall X4. (m1_subset_1 X4 k5_numbers) \Rightarrow ((X4 \in k2_finseq_1 X0) \Rightarrow (k7_partfun1 k6_margrel1 X3 X4 = k2_binarith (k7_partfun1 k6_margrel1 X1 X4) (k7_partfun1 k6_margrel1 X2 X4)))))))))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k6_margrel1)\wedge(m1_subset_1 X1 k6_margrel1))\Rightarrow(k2_binarith X0 X1 = k2_binarith X1 X0) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(m1_finseq_1 X1 X0)\Rightarrow(v5_relat_1 X1 X0) \quad (7)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k5_numbers)\Rightarrow(\forall X1.((v3_card_1 X1 X0)\wedge(m2_finseq_1 X1 k6_margrel1))\Rightarrow(\forall X2.((v3_card_1 X2 X0)\wedge(m2_finseq_1 X2 k6_margrel1))\Rightarrow(k2_idea_1 X0 X1 X2 = k2_idea_1 X0 X2 X1)))$$