

t3_nat_3 (TMHxmF- BznyJ93VjeAECohcpYWojkoixAXCD)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $r1_nat_d : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_nat_d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((\neg(\neg(X0 = k6_numbers) \wedge (X1 \neq k6_numbers)) \wedge (k1_newton X0 X1 = k6_numbers)) \wedge (\neg(k1_newton X0 X1 \neq k6_numbers) \wedge ((X0 = k6_numbers) \wedge (X1 \neq k6_numbers))))) \quad (1)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((r1_nat_d X0 (k4_nat_d X1 X0)) \Rightarrow ((X0 = k6_numbers) \vee (r1_nat_d X0 X1)))) \quad (2)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow ((r1_nat_d X0 k6_numbers) \wedge (r1_nat_d np_1 X0)) \quad (3)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\neg(k6_numbers \neq X0) \wedge (r1_xxreal_0 X0 k6_numbers)) \quad (4)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((\neg r1_xxreal_0 X0 k6_numbers) \Rightarrow (k4_nat_d (k1_newton X1 X0) X1 = k6_numbers))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 X0) \wedge (v7_ordinal1 X1)) \Rightarrow (v7_ordinal1 (k1_newton X0 X1)) \quad (6)$$

Theorem 1

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((X0 \neq k6_numbers) \Rightarrow (r1_nat_d X1 (k1_newton X1 X0))))$$