

t46_newton
(TMSHYB8k6FyNAivRQ64uPDHYjkCoz5DSgnG)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k5_nat_d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $r1_nat_d : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xboolean : \iota \Rightarrow o$ be given. Let $k2_xboolean : \iota$ be given. Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow ((r1_nat_d X0 k6_numbers) \wedge (r1_nat_d np_1 X0)) \quad (1)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((r1_nat_d X0 X1) \Leftrightarrow (k5_nat_d X0 X1 = X1))) \quad (2)$$

Assume the following.

$$v1_xboolean k2_xboolean \quad (3)$$

Assume the following.

$$k2_xboolean = np_1 \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 X0) \wedge (v7_ordinal1 X1)) \Rightarrow (k5_nat_d X0 X1 = k5_nat_d X1 X0) \quad (5)$$

Assume the following.

$$\forall X0.(v1_xboolean X0) \Rightarrow (v7_ordinal1 X0) \quad (6)$$

Theorem 1 $\forall X0.(v7_ordinal1 X0) \Rightarrow (k5_nat_d X0 np_1 = X0)$.