

t35_pepin (TMNMwD-
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Let $v7_ordinal1 : \iota \Rightarrow o$ 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. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (k4_nat_d (k4_nat_d X0 X1) X1 = k4_nat_d X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (\forall X2.(v7_ordinal1 X2) \Rightarrow (k4_nat_d (k1_newton X0 X1) X2 = k4_nat_d (k1_newton (k4_nat_d X0 X2) X1) X2))) \quad (2)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (k2_newton np_1 X0 = np_1) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_numbers) \wedge (v7_ordinal1 X1)) \Rightarrow (k2_newton X0 X1 = k1_newton X0 X1) \quad (4)$$

Assume the following.

$$m1_subset_1 np_1 k1_numbers \quad (5)$$

Theorem 1

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (\forall X2.(v7_ordinal1 X2) \Rightarrow ((k4_nat_d X1 X0 = np_1) \Rightarrow ((r1_xxreal_0 X0 np_1) \vee (k4_nat_d (k1_newton X1 X2) X0 = np_1))))))$$