

t12_wsierp_1
(TMdXYMuuefngzifZVPJny3kqktNsXBQmN7B)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $k3_int_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_int_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2.(v1_int_1 X2) \Rightarrow ((r1_int_2 X1 X2) \Rightarrow (r1_int_2 (k1_newton X1 X0) X2)))) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((v1_int_1 X0) \wedge (v7_ordinal1 X1)) \Rightarrow (v1_int_1 (k1_newton X0 X1)) \quad (2)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow ((r1_int_2 X0 X1) \Leftrightarrow (k3_int_2 X0 X1 = np_1))) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((v1_int_1 X0) \wedge (v1_int_1 X1)) \Rightarrow (k3_int_2 X0 X1 = k3_int_2 X1 X0) \quad (4)$$

Theorem 1

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (\forall X2.(v1_int_1 X2) \Rightarrow (\forall X3.(v1_int_1 X3) \Rightarrow ((k3_int_2 X2 X3 = np_1) \Rightarrow ((k3_int_2 X2 (k1_newton X3 X0) = np_1) \wedge (k3_int_2 (k1_newton X2 X1) (k1_newton X3 X0) = np_1)))))))$$