

t68\_newton  
(TMY1A3ipN5ekRAaSimRiyECtiULB8rddy2mV)

October 27, 2020

Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k11\_newton : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_int\_2 : \iota \Rightarrow o$  be given. Let  $v6\_membered : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1\_subset\_1 X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. (v7\_ordinal1 X0) \Rightarrow (m1\_subset\_1 (k11\_newton X0) (k1\_zfmisc\_1 k5\_numbers)) \quad (2)$$

Assume the following.

$$m1\_subset\_1 k10\_newton (k1\_zfmisc\_1 k5\_numbers) \quad (3)$$

Assume the following.

$$\forall X0. (v7\_ordinal1 X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 k5\_numbers)) \Rightarrow ((X1 = k11\_newton X0) \Leftrightarrow (\forall X2. (v7\_ordinal1 X2) \Rightarrow ((X2 \in X1) \Leftrightarrow ((\neg r1\_xxreal\_0 X0 X2) \wedge (v1\_int\_2 X2)))))) \quad (4)$$

Assume the following.

$$\forall X0. (m1\_subset\_1 X0 (k1\_zfmisc\_1 k5\_numbers)) \Rightarrow ((X0 = k10\_newton) \Leftrightarrow (\forall X1. (v7\_ordinal1 X1) \Rightarrow ((X1 \in X0) \Leftrightarrow (v1\_int\_2 X1)))) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (6)$$

Assume the following.

$$\forall X0. (v6\_membered X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 X0) \Rightarrow (v7\_ordinal1 X1)) \quad (7)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k5\_numbers)) \Rightarrow (v6\_membered X0) \quad (8)$$

**Theorem 1**  $\forall X0.(v7\_ordinal1 X0) \Rightarrow (r1\_tarski (k11\_newton X0) k10\_newton)$ .