

l33_int_5 (TMWU-
FUDqgX4tsZMCLkmEt4FvVWkmDdbv186)

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Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_int_2 : \iota \Rightarrow o$ be given. Let $k3_int_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $r1_int_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$r1_xxreal_0 \ np_1 \ np_1 \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. ((v1_int_1 \ X0) \wedge (v1_int_1 \ X1)) \Rightarrow (r1_int_1 \ X0 \ X0) \tag{2}$$

Assume the following.

$$\forall X0. (v7_ordinal1 \ X0) \Rightarrow ((v1_int_2 \ X0) \Leftrightarrow ((\neg r1_xxreal_0 \ X0 \ np_1) \wedge (\forall X1. (v7_ordinal1 \ X1) \Rightarrow (\neg (r1_int_1 \ X1 \ X0) \wedge ((X1 \neq np_1) \wedge (X1 \neq X0))))))) \tag{3}$$

Assume the following.

$$\forall X0. (v1_int_1 \ X0) \Rightarrow (\forall X1. (v1_int_1 \ X1) \Rightarrow (\forall X2. (v7_ordinal1 \ X2) \Rightarrow ((X2 = k3_int_2 \ X0 \ X1) \Leftrightarrow ((r1_int_1 \ X2 \ X0) \wedge ((r1_int_1 \ X2 \ X1) \wedge (\forall X3. (v1_int_1 \ X3) \Rightarrow (((r1_int_1 \ X3 \ X0) \wedge (r1_int_1 \ X3 \ X1)) \Rightarrow (r1_int_1 \ X3 \ X2)))))))))) \tag{4}$$

Assume the following.

$$\forall X0. (v7_ordinal1 \ X0) \Rightarrow (v1_int_1 \ X0) \tag{5}$$

Theorem 1

$$\forall X0. (v1_int_1 \ X0) \Rightarrow (\forall X1. ((v7_ordinal1 \ X1) \wedge (v1_int_2 \ X1)) \Rightarrow (\neg (k3_int_2 \ X0 \ X1 = np_1) \wedge (r1_int_1 \ X1 \ X0)))$$