

t20_gr_cy_2
(TMVoyuhE5Qi9ChLhc31iaBRXfBkLXrDUAZx)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v8_struct_0 : \iota \Rightarrow o$ be given. Let $v15_algstr_0 : \iota \Rightarrow o$ be given. Let $v2_group_1 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ be given. Let $k7_group_1 : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $m1_group_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_group_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_group_2 : \iota \Rightarrow \iota$ be given. Let $v1_int_2 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

$$v1_int_2 \ np_2 \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 \ X0) \Rightarrow (\forall X1.((\neg v2_struct_0 \ X1) \wedge \\ & ((v8_struct_0 \ X1) \wedge ((v15_algstr_0 \ X1) \wedge ((v2_group_1 \ X1) \wedge ((v3_group_1 \\ & X1) \wedge (l3_algstr_0 \ X1)))))) \Rightarrow (((k7_group_1 \ X1 = X0) \wedge (v1_int_2 \ X0)) \Rightarrow \\ & (\forall X2.((v15_algstr_0 \ X2) \wedge (m1_group_2 \ X2 \ X1)) \Rightarrow ((r1_group_2 \\ & X1 \ X2 \ (k6_group_2 \ X1)) \vee (X2 = X1)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_2) \wedge (m2_subset_1 \ np_2 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_2 \ k5_numbers) \wedge (m1_subset_1 \ np_2 \ k1_numbers)) \end{aligned} \tag{3}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{4}$$

Assume the following.

$$\forall X0.(m1_subset_1 \ X0 \ k4_ordinal1) \Rightarrow (v7_ordinal1 \ X0) \tag{5}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 \ X0) \wedge ((v8_struct_0 \ X0) \wedge ((v15_algstr_0 \\ & X0) \wedge ((v2_group_1 \ X0) \wedge ((v3_group_1 \ X0) \wedge (l3_algstr_0 \ X0)))))) \Rightarrow \\ & ((k7_group_1 \ X0 = np_2) \Rightarrow (\forall X1.((v15_algstr_0 \ X1) \wedge (m1_group_2 \\ & X1 \ X0)) \Rightarrow ((r1_group_2 \ X0 \ X1 \ (k6_group_2 \ X0)) \vee (X1 = X0)))) \end{aligned}$$