

t20_rlvect_2

(TMdqTxwC53jDr9PEw71Qr8SMYq57tU7Xu33)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l2_algstr_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k4_rlvect_2 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_rlvect_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_rlvect_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k5_funct_5 : \iota$ be given. Let $c2_arytm_0 : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \neg (X0 \in X1) \wedge (v1_xboole_0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. ((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (\forall X1. \\ (m1_rlvect_2 X1 X0) \Rightarrow (\forall X2. (m1_subset_1 X2 (u1_struct_0 \\ X0)) \Rightarrow ((k3_funct_2 (u1_struct_0 X0) k1_numbers X1 X2 = k6_numbers) \Leftrightarrow \\ (\neg X2 \in k3_rlvect_2 X0 X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (3)$$

Assume the following.

$$k5_funct_5 = k1_xboole_0 \quad (4)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (5)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (m1_rlvect_2 \\ (k4_rlvect_2 X0) X0) \quad (6)$$

Assume the following.

$$c2_arytm_0 = k6_numbers \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_rlvect_2 X1 X0) \Rightarrow ((X1 = k4_rlvect_2 X0) \Leftrightarrow (k3_rlvect_2 X0 X1 = \\ & \quad k1_xboole_0))) \end{aligned} \tag{8}$$

Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (k3_funct_2 (u1_struct_0 X0) \\ & \quad k1_numbers (k4_rlvect_2 X0) X1 = k6_numbers)) \end{aligned}$$