

t82_matrixr2 (TML- hceeKfMTjqRV2zWRiEHC5Ds4smBJYP3W)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $m1_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $v1_matrixr2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_matrixr2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k4_matrixr2 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_matrixr2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Let $k7_matrixr2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (k3_matrixr2 X0 (k4_matrixr2 X0) = np_1) \quad (1)$$

Assume the following.

$$\begin{aligned} &\forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m1_matrix_1 \\ &X1 k1_numbers X0 X0) \Rightarrow (\forall X2.(m1_matrix_1 X2 k1_numbers X0 \\ &X0) \Rightarrow (k3_matrixr2 X0 (k1_matrixr2 X0 X1 X2) = k8_real_1 (k3_matrixr2 \\ &X0 X1) (k3_matrixr2 X0 X2)))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k3_xcmplx_0 X0 k6_numbers = k6_numbers) \quad (3)$$

Assume the following.

$$\neg v1_xboole_0 np_1 \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_numbers) \wedge (v1_xreal_0 X1)) \Rightarrow (k8_real_1 X0 X1 = k3_xcmplx_0 X0 X1) \quad (5)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (6)$$

Assume the following.

$$v3_membered\ k1_numbers \quad (7)$$

Assume the following.

$$v1_xboole_0\ k1_xboole_0 \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((m1_subset_1\ X0\ k5_numbers)\wedge(m1_matrix_1 \\ X1\ k1_numbers\ X0\ X0))\Rightarrow(m1_matrix_1\ (k7_matrixr2\ X0\ X1)\ k1_numbers \\ X0\ X0) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((m1_subset_1\ X0\ k5_numbers)\wedge(m1_matrix_1 \\ X1\ k1_numbers\ X0\ X0))\Rightarrow(m1_subset_1\ (k3_matrixr2\ X0\ X1)\ k1_numbers) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1\ X0\ k5_numbers)\Rightarrow(\forall X1.(m1_matrix_1 \\ X1\ k1_numbers\ X0\ X0)\Rightarrow((v1_matrixr2\ X1\ X0)\Rightarrow(\forall X2.(m1_matrix_1 \\ X2\ k1_numbers\ X0\ X0)\Rightarrow((X2 = k7_matrixr2\ X0\ X1)\Leftrightarrow((k1_matrixr2\ X0 \\ X2\ X1 = k4_matrixr2\ X0)\wedge(k1_matrixr2\ X0\ X1\ X2 = k4_matrixr2\ X0)))))) \end{aligned} \quad (11)$$

Assume the following.

$$\forall X0.(v3_membered\ X0)\Rightarrow(v1_membered\ X0) \quad (12)$$

Assume the following.

$$\forall X0.(v3_membered\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ X0)\Rightarrow(v1_xreal_0\ X1)) \quad (13)$$

Assume the following.

$$\forall X0.(v1_membered\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ X0)\Rightarrow(v1_xcmplx_0\ X1)) \quad (14)$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1\ X0\ k5_numbers)\Rightarrow(\forall X1.(m1_matrix_1 \\ X1\ k1_numbers\ X0\ X0)\Rightarrow(\neg(v1_matrixr2\ X1\ X0)\wedge(k3_matrixr2\ X0\ X1 = \\ k6_numbers))) \end{aligned}$$