

t26_int_5

(TMPG4Eg69JyRDUuzkPnPd5FxUWSZP7yUs75)

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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 $k6_int_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k2_int_5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_pepin : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $r1_int_5 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_int_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $v3_xxreal_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k3_square_1 : \iota \Rightarrow \iota$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Let $v2_membered : \iota \Rightarrow o$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v5_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (r1_int_5 (k1_pepin X0) X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2. ((v7_ordinal1 X2) \wedge (v1_int_2 X2)) \Rightarrow (\neg(r1_int_1 X2 (k3_xcmplx_0 X0 X1)) \wedge ((\neg r1_int_1 X2 X0) \wedge (\neg r1_int_1 X2 X1)))))) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \Rightarrow ((v1_xboole_0 X0) \vee ((v2_xxreal_0 X1) \vee (v3_xxreal_0 X0)))))) \quad (3)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow ((\neg r1_xxreal_0 X0 k6_numbers) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow ((k6_int_1 X1 X0 = k6_numbers) \Leftrightarrow (r1_int_1 X0 X1)))) \quad (4)$$

Assume the following.

$$m1_subset_1 \ k1_xboole_0 \ k4_ordinal1 \quad (5)$$

Assume the following.

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

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (7)$$

Assume the following.

$$\forall X0.(v1_int_1 \ X0) \Rightarrow (k1_pepin \ X0 = k3_square_1 \ X0) \quad (8)$$

Assume the following.

$$v6_membered \ k4_ordinal1 \quad (9)$$

Assume the following.

$$v1_xboole_0 \ k1_xboole_0 \quad (10)$$

Assume the following.

$$m1_subset_1 \ k5_numbers \ (k1_zfmisc_1 \ k1_numbers) \quad (11)$$

Assume the following.

$$\forall X0.(v1_int_1 \ X0) \Rightarrow (m1_subset_1 \ (k1_pepin \ X0) \ k5_numbers) \quad (12)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_int_1 \ X0) \Rightarrow (\forall X1.((v7_ordinal1 \ X1) \wedge (v1_int_2 \\ & X1)) \Rightarrow (((r1_int_5 \ X0 \ X1) \Rightarrow ((k6_int_1 \ X0 \ X1 = k6_numbers) \vee (k2_int_5 \\ & X0 \ X1 = np_1))) \wedge (((r1_int_5 \ X0 \ X1) \wedge (k6_int_1 \ X0 \ X1 = k6_numbers)) \Rightarrow \\ & (k2_int_5 \ X0 \ X1 = k6_numbers)) \wedge (\neg(\neg(r1_int_5 \ X0 \ X1) \wedge (k6_int_1 \\ & X0 \ X1 \neq k6_numbers)) \wedge (\neg(r1_int_5 \ X0 \ X1) \wedge (k6_int_1 \ X0 \ X1 = k6_numbers)) \wedge \\ & (k2_int_5 \ X0 \ X1 \neq k4_xcmplx_0 \ np_1)))))) \end{aligned} \quad (13)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 \ X0) \Rightarrow (k3_square_1 \ X0 = k3_xcmplx_0 \ X0 \ X0) \quad (14)$$

Assume the following.

$$\forall X0.(m1_subset_1 \ X0 \ (k1_zfmisc_1 \ k1_numbers)) \Rightarrow (v3_membered \ X0) \quad (15)$$

Assume the following.

$$\forall X0.(v1_xboole_0 \ X0) \Rightarrow (v7_ordinal1 \ X0) \quad (16)$$

Assume the following.

$$\forall X0.(v3_membered\ X0)\Rightarrow(v2_membered\ X0) \quad (17)$$

Assume the following.

$$\forall X0.((v1_xreal_0\ X0)\wedge(v2_xreal_0\ X0))\Rightarrow((\neg v1_xboole_0\ X0)\wedge((v1_xreal_0\ X0)\wedge(\neg v3_xreal_0\ X0))) \quad (18)$$

Assume the following.

$$\forall X0.(v1_xreal_0\ X0)\Rightarrow(v1_xcmplx_0\ X0) \quad (19)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow((v7_ordinal1\ X0)\wedge(\neg v3_xreal_0\ X0)) \quad (20)$$

Assume the following.

$$\forall X0.(v1_int_1\ X0)\Rightarrow(v1_xreal_0\ X0) \quad (21)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(v1_xreal_0\ X0) \quad (22)$$

Assume the following.

$$\forall X0.((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))\Rightarrow((\neg v1_xboole_0\ X0)\wedge((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))) \quad (23)$$

Assume the following.

$$\forall X0.(v6_membered\ X0)\Rightarrow(v5_membered\ X0) \quad (24)$$

Assume the following.

$$\forall X0.(v5_membered\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ X0)\Rightarrow(v1_int_1\ X1)) \quad (25)$$

Assume the following.

$$\forall X0.(v3_membered\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ X0)\Rightarrow(v1_xreal_0\ X1)) \quad (26)$$

Assume the following.

$$\forall X0.(v2_membered\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ X0)\Rightarrow(v1_xreal_0\ X1)) \quad (27)$$

Theorem 1

$$\forall X0.(v1_int_1\ X0)\Rightarrow(\forall X1.((v7_ordinal1\ X1)\wedge(v1_int_2\ X1))\Rightarrow((k6_int_1\ X0\ X1\neq k6_numbers)\Rightarrow(k2_int_5\ (k1_pepin\ X0)\ X1 = np_1)))$$