

t75_mmlquery

(TMKs3s5jrohMn5pH2hrLomPZy9Ztj84bmqv)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v3_mmlquery : \iota \Rightarrow o$ be given. Let $l1_mmlquery : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_mmlquery : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k34_mmlquery : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k37_mmlquery : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v3_mmlquery X0) \wedge (l1_mmlquery X0)) \Rightarrow (\forall X1. \\ & (m2_finseq_1 X1 (u1_mmlquery X0)) \Rightarrow (\forall X2.(v7_ordinal1 X2) \Rightarrow \\ & (\forall X3.(v7_ordinal1 X3) \Rightarrow (\forall X4.(v7_ordinal1 X4) \Rightarrow (\\ & \forall X5.(v7_ordinal1 X5) \Rightarrow (((r1_xxreal_0 X2 X4) \wedge (r1_xxreal_0 \\ & X3 X5)) \Rightarrow (r1_tarski (k37_mmlquery X0 X1 X2 X3) (k37_mmlquery X0 X1 \\ & X4 X5)))))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v3_mmlquery X0) \wedge (l1_mmlquery X0)) \Rightarrow (\forall X1. \\ & (m2_finseq_1 X1 (u1_mmlquery X0)) \Rightarrow (k37_mmlquery X0 X1 k6_numbers \\ & k6_numbers = k34_mmlquery X0 X1)) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (r1_xxreal_0 k6_numbers X0) \tag{3}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{4}$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \tag{5}$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (v7_ordinal1 X0) \tag{6}$$

Theorem 1

$$\begin{aligned} & \forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.(v7_ordinal1\ X1) \Rightarrow (\forall X2. \\ & ((v3_mmlquery\ X2) \wedge (l1_mmlquery\ X2)) \Rightarrow (\forall X3.(m2_finseq_1 \\ & X3\ (u1_mmlquery\ X2)) \Rightarrow (r1_tarSKI\ (k34_mmlquery\ X2\ X3)\ (k37_mmlquery \\ & X2\ X3\ X0\ X1)))))) \end{aligned}$$