

# t74\_mmlquery (TM- Myo2CqQc4wgo4naRtuSpuvTRbfN1usPQm)

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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  $k33\_mmlquery : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k36\_mmlquery : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  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.

$$\begin{aligned} & \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(v7\_ordinal1 X1) \Rightarrow (\forall X2. \\ & ((v3\_mmlquery X2) \wedge (l1\_mmlquery X2)) \Rightarrow (\forall X3.(m2\_finseq\_1 \\ & X3 (u1\_mmlquery X2)) \Rightarrow ((r1\_xxreal\_0 X0 X1) \Rightarrow (r1\_tarski (k36\_mmlquery \\ & X2 X3 X0) (k36\_mmlquery X2 X3 X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v3\_mmlquery X0) \wedge (l1\_mmlquery X0)) \Rightarrow (\forall X1. \\ & (m2\_finseq\_1 X1 (u1\_mmlquery X0)) \Rightarrow (k36\_mmlquery X0 X1 k6\_numbers = \\ & k33\_mmlquery X0 X1)) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (r1\_xxreal\_0 k6\_numbers X0) \quad (3)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (4)$$

Assume the following.

$$v1\_xboole\_0 k1\_xboole\_0 \quad (5)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (v7\_ordinal1 X0) \quad (6)$$

## Theorem 1

$$\begin{aligned} & \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.((v3\_mmlquery X1) \wedge ( \\ & l1\_mmlquery X1)) \Rightarrow (\forall X2.(m2\_finseq\_1 X2 (u1\_mmlquery X1)) \Rightarrow \\ & (r1\_tarski (k33\_mmlquery X1 X2) (k36\_mmlquery X1 X2 X0)))) \end{aligned}$$