

t2_int_1 (TMGoAMt- fUaVEtQ1h8VFTvC1uwqKi8QdNf8Q)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $k4_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v1_int_1 X0) \Leftrightarrow (X0 \in k4_numbers) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(X0 = k4_numbers) \Leftrightarrow (\forall X1.(X1 \in X0) \Leftrightarrow (\neg \forall X2. \\ (m2_subset_1 X2 k1_numbers k5_numbers) \Rightarrow ((X1 \neq X2) \wedge (X1 \neq k1_real_1 \\ X2)))) \end{aligned} \quad (2)$$

Theorem 1

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\neg (v1_int_1 X0) \wedge (\forall X1.(m2_subset_1 \\ X1 k1_numbers k5_numbers) \Rightarrow ((X0 \neq X1) \wedge (X0 \neq k1_real_1 X1))))$$