

t3_measure5

(TMQ2ZhzXcx3fJr2oEMKtS9iW7dJ1NdmHfCQ)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xxreal_0 X2) \Rightarrow (((r1_xxreal_0 X0 X1) \wedge (r1_xxreal_0 X1 X2)) \Rightarrow \\ & (r1_xxreal_0 X0 X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 k7_numbers) \Rightarrow (\neg(\neg r1_xxreal_0 X1 X0) \wedge (\forall X2.(m1_subset_1 \\ & X2 k7_numbers) \Rightarrow (\neg(\neg r1_xxreal_0 X2 X0) \wedge ((\neg r1_xxreal_0 X1 X2) \wedge \\ & (X2 \in k1_numbers)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (r1_xxreal_0 X0 X1) \vee (r1_xxreal_0 X1 X0) \quad (3)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (v1_xxreal_0 X0) \quad (4)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k7_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 k7_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 k7_numbers) \Rightarrow (\neg(\neg \\ & r1_xxreal_0 X1 X0) \wedge ((\neg r1_xxreal_0 X2 X0) \wedge (\forall X3.(m1_subset_1 \\ & X3 k7_numbers) \Rightarrow (\neg(\neg r1_xxreal_0 X3 X0) \wedge ((\neg r1_xxreal_0 X1 X3) \wedge \\ & ((\neg r1_xxreal_0 X2 X3) \wedge (X3 \in k1_numbers)))))))))) \end{aligned}$$