

t1_integr19
(TMGnxSATyf6mqw9VUG6L32a9PXsUxmnzi6r)

October 27, 2020

Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_integra5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow ((r1_xxreal_0 X0 X2) \wedge (r1_xxreal_0 X2 X1)) \Rightarrow (\\ & (X2 \in k3_integra5 X0 X1) \wedge ((r1_tarski (k3_integra5 X0 X2) (k3_integra5 \\ & X0 X1)) \wedge (r1_tarski (k3_integra5 X2 X1) (k3_integra5 X0 X1)))))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow ((r1_xxreal_0 X0 X1) \wedge (r1_xxreal_0 X1 X2)) \Rightarrow (\\ & (X1 \in k3_integra5 X0 X2) \wedge ((r1_tarski (k3_integra5 X0 X1) (k3_integra5 \\ & X0 X2)) \wedge (r1_tarski (k3_integra5 X1 X2) (k3_integra5 X0 X2)))))) \end{aligned}$$