

t25_afinsq_2 (TM-
RZEv7MZDQEAWSfM9PerXdSwUQuLGh8LE)

October 27, 2020

Let $r1_afinsq_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (r1_afinsq_2 X0 X1) \Leftrightarrow (\forall X2. (v7_ordinal1 \\ X2) \Rightarrow (\forall X3. (v7_ordinal1 X3) \Rightarrow (\neg(X2 \in X0) \wedge ((X3 \in X1) \wedge (r1_xreal_0 \\ X3 X2)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (X2 = k3_xboole_0 X0 X1) \Leftrightarrow (\forall X3. \\ (X3 \in X2) \Leftrightarrow ((X3 \in X0) \wedge (X3 \in X1))) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (r1_afinsq_2 X1 X2) \Rightarrow (r1_afinsq_2 \\ (k3_xboole_0 X0 X1) (k3_xboole_0 X0 X2)) \end{aligned}$$