t2_int_4 (TM-SYLLwn9zHbYjjpXyqqreHdNWneJ4R3rEX)

October 27, 2020

Let $v3\_membered : \iota \Rightarrow o$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k1\_card\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_measure6 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2\_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(r2\_wellord2\ X0\ X1) \Leftrightarrow (k1\_card\_1\ X0 = k1\_card\_1\ X1) \tag{1}$$

Assume the following.

$$\forall X0.(v3\_membered\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (r2\_tarski\ X0\ (k2\_measure6\ X0\ X1))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(r2\_wellord2\ X0\ X1) \Leftrightarrow (r2\_tarski\ X0\ X1) \tag{3}$$

Theorem 1

$$\forall X0.(v3\_membered\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (k1\_card\_1\ X0 = k1\_card\_1\ (k2\_measure6\ X0\ X1)))$$