l4_int_4 (TMTAEfiAXwN-Brh2iPnmTnCFMMaMGXjbKDx1)

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Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_numbers : \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_integra2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v5\_membered : \iota \Rightarrow o$ be given. Let $v3\_membered : \iota \Rightarrow o$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k23\_member\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4\_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v5\_membered\ X0) \Rightarrow (r1\_tarski\ X0\ k4\_numbers) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((v3\_membered\ X0) \wedge (v1\_xreal\_0\ X1)) \Rightarrow (k1\_integra2\ X0\ X1 = k23\_member\_1\ X0\ X1) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v5\_membered\ X0) \wedge (v1\_int\_1\ X1)) \Rightarrow (v5\_membered\ (k23\_member\_1\ X0\ X1)) \tag{3}$$

Assume the following.

$$v5\_membered\ k4\_numbers \tag{4}$$

Assume the following.

$$\forall X0.(v4\_membered\ X0) \Rightarrow (v3\_membered\ X0) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (v1\_xreal\_0\ X0) \tag{6}$$

Assume the following.

$$\forall X0.(v5\_membered\ X0) \Rightarrow (v4\_membered\ X0) \tag{7}$$

Assume the following.

$$\forall X0.(v5\_membered\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)) \Rightarrow (v5\_membered\ X1)) \tag{8}$$

Theorem 1

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ k4\_numbers)) \Rightarrow (r1\_tarski\ (k1\_integra2\ X1\ X0)\ k4\_numbers))$$