t9_osalg_4 (TMMju8M3hjueDbaurgPgPE8USmLZKoK8iqs)

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Let $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v3\_relat\_2 : \iota \Rightarrow o$ be given. Let $v8\_relat\_2 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_eqrel\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_relat\_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(k2\_zfmisc\_1\ X0\ X1 = k1\_xboole\_0) \Leftrightarrow ((X0 = k1\_xboole\_0) \vee (X1 = k1\_xboole\_0)) \tag{1}$$

Assume the following.

$$\forall X0.(v3\_relat\_2\ (k1\_eqrel\_1\ X0)) \wedge ((v8\_relat\_2\ (k1\_eqrel\_1\ X0)) \wedge ((v1\_partfun1\ (k1\_eqrel\_1\ X0)\ X0) \wedge (m1\_subset\_1\ (k1\_eqrel\_1\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0))))) \tag{2}$$

Assume the following.

$$(v1\_relat\_2\ k1\_xboole\_0) \wedge ((v3\_relat\_2\ k1\_xboole\_0) \wedge ((v1\_partfun1\ k1\_xboole\_0\ k1\_xboole\_0) \wedge (m1\_subset\_1\ k1\_xboole\_0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_xboole\_0\ k1\_xboole\_0))))) \tag{3}$$

Assume the following.

$$\forall X0.k1\_eqrel\_1\ X0 = k2\_zfmisc\_1\ X0\ X0 \tag{4}$$

Theorem 1

$$(v1\_partfun1\ k1\_xboole\_0\ k1\_xboole\_0) \wedge ((v3\_relat\_2\ k1\_xboole\_0) \wedge ((v8\_relat\_2\ k1\_xboole\_0) \wedge (m1\_subset\_1\ k1\_xboole\_0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_xboole\_0\ k1\_xboole\_0)))))$$