t7_mesfunc5 (TMSo-JqmjHz13eHJE7WNWhbTvGKQsYUB73KA)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7\_numbers : \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Let $k4\_xxreal\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_extreal1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xxreal\_0\ X2) \Rightarrow (((r1\_xxreal\_0\ X0\ X1) \wedge (r1\_xxreal\_0\ X2\ k6\_numbers)) \Rightarrow (r1\_xxreal\_0\ (k4\_xxreal\_3\ X1\ X2)\ (k4\_xxreal\_3\ X0\ X2))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k7\_numbers) \wedge (m1\_subset\_1\ X1\ k7\_numbers)) \Rightarrow (k1\_extreal1\ X0\ X1 = k4\_xxreal\_3\ X0\ X1) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k7\_numbers) \wedge (m1\_subset\_1\ X1\ k7\_numbers)) \Rightarrow (m1\_subset\_1\ (k1\_extreal1\ X0\ X1)\ k7\_numbers) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow ((r1\_xxreal\_0\ X0\ X1) \Rightarrow (k3\_xxreal\_0\ X0\ X1 = X0)) \wedge ((\neg r1\_xxreal\_0\ X0\ X1) \Rightarrow (k3\_xxreal\_0\ X0\ X1 = X1)))) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow ((r1\_xxreal\_0\ X1\ X0) \Rightarrow (k4\_xxreal\_0\ X0\ X1 = X0)) \wedge ((\neg r1\_xxreal\_0\ X1\ X0) \Rightarrow (k4\_xxreal\_0\ X0\ X1 = X1)))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0\ X0) \wedge (v1\_xxreal\_0\ X1)) \Rightarrow ((r1\_xxreal\_0\ X0\ X1) \vee (r1\_xxreal\_0\ X1\ X0)) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0\ X0)\wedge(v1\_xxreal\_0\ X1))\Rightarrow(k4\_xxreal\_3\ X0\ X1 = k4\_xxreal\_3\ X1\ X0) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0\ X0)\wedge(v1\_xxreal\_0\ X1))\Rightarrow(k4\_xxreal\_0\ X0\ X1 = k4\_xxreal\_0\ X1\ X0) \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0\ X0)\wedge(v1\_xxreal\_0\ X1))\Rightarrow(k3\_xxreal\_0\ X0\ X1 = k3\_xxreal\_0\ X1\ X0) \tag{9}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k7\_numbers)\Rightarrow(v1\_xxreal\_0\ X0) \tag{10}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k7\_numbers)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ k7\_numbers)\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ k7\_numbers)\Rightarrow((r1\_xxreal\_0\ X2\ k6\_numbers)\Rightarrow((k4\_xxreal\_3\ X2\ (k3\_xxreal\_0\ X0\ X1) = k4\_xxreal\_0\ (k1\_extreal1\ X2\ X0)\ (k1\_extreal1\ X2\ X1))\wedge(k4\_xxreal\_3\ X2\ (k4\_xxreal\_0\ X0\ X1) = k3\_xxreal\_0\ (k1\_extreal1\ X2\ X0)\ (k1\_extreal1\ X2\ X1))))))$$