t8_integra8 (TMaK-WQMZgFmVpi9wXWLTvdKEgSVzbJejUCC)

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Let $k18\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $k1\_real\_1 : \iota \Rightarrow \iota$ be given. Let $k10\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k32\_sin\_cos : \iota$ be given. Let $np\_\_4 : \iota$ be given. Let $k7\_square\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16\_sin\_cos : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k19\_sin\_cos : \iota$ be given. Let $k8\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_3 : \iota$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k17\_sin\_cos : \iota \Rightarrow \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$k18\_sin\_cos\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_4) = k10\_real\_1\ (k7\_square\_1\ np\_\_2)\ np\_\_2 \tag{1}$$

Assume the following.

$$\begin{gathered}(k1\_seq\_1\ k16\_sin\_cos\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_4)) = k1\_real\_1\ (k10\_real\_1\ np\_\_1\ (k7\_square\_1\ np\_\_2)))\wedge((k1\_seq\_1\ k19\_sin\_cos\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_4)) = k10\_real\_1\ np\_\_1\ (k7\_square\_1\ np\_\_2))\wedge((k1\_seq\_1\ k16\_sin\_cos\ (k8\_real\_1\ (k10\_real\_1\ np\_\_3\ np\_\_4)\ k32\_sin\_cos) = k10\_real\_1\ np\_\_1\ (k7\_square\_1\ np\_\_2))\wedge(k1\_seq\_1\ k19\_sin\_cos\ (k8\_real\_1\ (k10\_real\_1\ np\_\_3\ np\_\_4)\ k32\_sin\_cos) = k1\_real\_1\ (k10\_real\_1\ np\_\_1\ (k7\_square\_1\ np\_\_2)))))\end{gathered} \tag{2}$$

Assume the following.

$$(k1\_seq\_1\ k16\_sin\_cos\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_4) = k10\_real\_1\ np\_\_1\ (k7\_square\_1\ np\_\_2))\wedge(k1\_seq\_1\ k19\_sin\_cos\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_4) = k10\_real\_1\ np\_\_1\ (k7\_square\_1\ np\_\_2)) \tag{3}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_4)\wedge(m2\_subset\_1\ np\_\_4\ k1\_numbers\ k5\_numbers))\wedge((m1\_subset\_1\ np\_\_4\ k5\_numbers)\wedge(m1\_subset\_1\ np\_\_4\ k1\_numbers)) \tag{4}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (k18\_sin\_cos\ X0 = k17\_sin\_cos\ X0) \tag{5}$$

Assume the following.

$$m1\_subset\_1\ k32\_sin\_cos\ k1\_numbers \tag{6}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (m1\_subset\_1\ (k1\_real\_1\ X0)\ k1\_numbers) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_numbers) \wedge (v1\_xreal\_0\ X1)) \Rightarrow (m1\_subset\_1\ (k10\_real\_1\ X0\ X1)\ k1\_numbers) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (k17\_sin\_cos\ X0 = k1\_seq\_1\ k16\_sin\_cos\ X0) \tag{9}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (v1\_xreal\_0\ X0) \tag{10}$$

Theorem 1

$$k18\_sin\_cos\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_4)) = k1\_real\_1\ (k10\_real\_1\ (k7\_square\_1\ np\_\_2)\ np\_\_2)$$