l5_sin_cos9 (TMKt49fCxq1E4tCErbbsiDTVHrnUhYcED5i)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k2\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $np\_\_2 : \iota$ be given. Let $k1\_fdiff\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k29\_sin\_cos : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k5\_square\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19\_sin\_cos : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $r1\_fdiff\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_rfunct\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16\_sin\_cos : \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_0 : \iota$ be given. Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow ((k1\_seq\_1\ k19\_sin\_cos\ X0 \neq k6\_numbers) \Rightarrow ((r1\_fdiff\_1\ (k3\_rfunct\_1\ k1\_numbers\ k1\_numbers\ k16\_sin\_cos\ k19\_sin\_cos)\ X0) \wedge (k1\_fdiff\_1\ (k3\_rfunct\_1\ k1\_numbers\ k1\_numbers\ k16\_sin\_cos\ k19\_sin\_cos)\ X0 = k10\_real\_1\ np\_\_1\ (k5\_square\_1\ (k1\_seq\_1\ k19\_sin\_cos\ X0))))) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\neg(X0 \in k2\_rcomp\_1\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_2))\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_2)) \wedge (r1\_xxreal\_0\ (k1\_seq\_1\ k19\_sin\_cos\ X0)\ k6\_numbers)) \tag{3}$$

Assume the following.

$$v1\_xboole\_0\ np\_\_0 \tag{4}$$

Assume the following.

$$r1\_xxreal\_0\ np\_\_0\ np\_\_0 \tag{5}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{6}$$

Assume the following.

$$k29\_sin\_cos = k3\_rfunct\_1\ k1\_numbers\ k1\_numbers\ k16\_sin\_cos\ k19\_sin\_cos \tag{7}$$

Assume the following.

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

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow ((X0 \in k2\_rcomp\_1\ (k1\_real\_1\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_2))\ (k10\_real\_1\ k32\_sin\_cos\ np\_\_2)) \Rightarrow (k1\_fdiff\_1\ k29\_sin\_cos\ X0 = k10\_real\_1\ np\_\_1\ (k5\_square\_1\ (k1\_seq\_1\ k19\_sin\_cos\ X0))))$$