l6_sin_cos9 (TMRrrPrGXC1rFbyrZRDcAmsEe5iUYaQEeJx)

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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 $k6\_numbers : \iota$ be given. Let $k32\_sin\_cos : \iota$ be given. Let $k1\_fdiff\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k30\_sin\_cos : \iota$ be given. Let $k1\_real\_1 : \iota \Rightarrow \iota$ be given. Let $k10\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k16\_sin\_cos : \iota$ 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 $k19\_sin\_cos : \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow ((k1\_seq\_1\ k16\_sin\_cos\ X0 \neq k6\_numbers) \Rightarrow ((r1\_fdiff\_1\ (k3\_rfunct\_1\ k1\_numbers\ k1\_numbers\ k19\_sin\_cos\ k16\_sin\_cos)\ X0) \wedge (k1\_fdiff\_1\ (k3\_rfunct\_1\ k1\_numbers\ k1\_numbers\ k19\_sin\_cos\ k16\_sin\_cos)\ X0 = k1\_real\_1\ (k10\_real\_1\ np\_\_1\ (k5\_square\_1\ (k1\_seq\_1\ k16\_sin\_cos\ X0))))))) \tag{1}$$

Assume the following.

$$r1\_tarski\ (k2\_rcomp\_1\ k6\_numbers\ k32\_sin\_cos)\ (k1\_relset\_1\ k1\_numbers\ k30\_sin\_cos) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (\neg(X0 \in k1\_relset\_1\ k1\_numbers\ k30\_sin\_cos) \wedge (k1\_seq\_1\ k16\_sin\_cos\ X0 = k6\_numbers)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(r1\_tarski\ X0\ X1) \Leftrightarrow (\forall X2.(X2 \in X0) \Rightarrow (X2 \in X1)) \tag{4}$$

Assume the following.

$$k30\_sin\_cos = k3\_rfunct\_1\ k1\_numbers\ k1\_numbers\ k19\_sin\_cos\ k16\_sin\_cos \tag{5}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow ((X0 \in k2\_rcomp\_1\ k6\_numbers\ k32\_sin\_cos) \Rightarrow (k1\_fdiff\_1\ k30\_sin\_cos\ X0 = k1\_real\_1\ (k10\_real\_1\ np\_\_1\ (k5\_square\_1\ (k1\_seq\_1\ k16\_sin\_cos\ X0)))))$$