l69_integra8 (TMVg27PqdLHVthGAdVmNkK4Erq6X4dMujqE)

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Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v2\_measure5 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $v1\_fcont\_1 : \iota \Rightarrow o$ be given. Let $k2\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_sin\_cos2 : \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $r2\_fdiff\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_fdiff\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_sin\_cos2 : \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ X1)) \Leftrightarrow (r1\_tarski\ X0\ X1) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow ((r2\_fdiff\_1\ k1\_sin\_cos2\ k1\_numbers) \wedge (k1\_fdiff\_1\ k1\_sin\_cos2\ X0 = k1\_seq\_1\ k4\_sin\_cos2\ X0)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_funct\_1\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers)))) \Rightarrow ((r2\_fdiff\_1\ X1\ X0) \Rightarrow (v1\_fcont\_1\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ X1\ X0))) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1\_funct\_1\ X2) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers)))) \Rightarrow (((v1\_fcont\_1\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ X2\ X0)) \wedge (r1\_tarski\ X1\ X0)) \Rightarrow (v1\_fcont\_1\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ X2\ X1))) \tag{4}$$

Assume the following.

$$\exists X0.(m1\_subset\_1\ X0\ k1\_numbers) \wedge ((v1\_xxreal\_0\ X0) \wedge ((v1\_xcmplx\_0\ X0) \wedge ((v1\_xreal\_0\ X0) \wedge (v1\_int\_1\ X0)))) \tag{5}$$

Assume the following.

$$(v1\_funct\_1\ k1\_sin\_cos2)\wedge((v1\_funct\_2\ k1\_sin\_cos2\ k1\_numbers\ k1\_numbers)\wedge(m1\_subset\_1\ k1\_sin\_cos2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers)))) \tag{6}$$

Theorem 1

$$\forall X0.((\neg v1\_xboole\_0\ X0)\wedge((v2\_measure5\ X0)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k1\_numbers))))\Rightarrow(v1\_fcont\_1\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ k1\_sin\_cos2\ X0))$$