t32_integra8 (TMFSXorcoBgs42ip9rhkwhcsSU68ugnHqHs)

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Let $k2\_fdiff\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k24\_sin\_cos : \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $v2\_funct\_1 : \iota \Rightarrow o$ be given. Let $r2\_fdiff\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_subset\_1 : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Let $k1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_limfunc1 : \iota \Rightarrow \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$(v2\_funct\_1\ k24\_sin\_cos) \wedge ((r2\_fdiff\_1\ k24\_sin\_cos\ k1\_numbers) \wedge ((r2\_fdiff\_1\ k24\_sin\_cos\ (k2\_subset\_1\ k1\_numbers)) \wedge ((\forall X0.\ (m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (k1\_fdiff\_1\ k24\_sin\_cos\ X0 = k1\_seq\_1\ k24\_sin\_cos\ X0)) \wedge ((\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (\neg r1\_xxreal\_0\ (k1\_fdiff\_1\ k24\_sin\_cos\ X0)\ k6\_numbers)) \wedge ((k1\_relset\_1\ k1\_numbers\ k24\_sin\_cos = k2\_subset\_1\ k1\_numbers) \wedge ((k1\_relset\_1\ k1\_numbers\ k24\_sin\_cos = k2\_subset\_1\ k1\_numbers) \wedge (k2\_relset\_1\ k1\_numbers\ k24\_sin\_cos = k3\_limfunc1\ k6\_numbers)))))))) \tag{1}$$

Assume the following.

$$(v1\_funct\_1\ k24\_sin\_cos) \wedge ((v1\_funct\_2\ k24\_sin\_cos\ k1\_numbers\ k1\_numbers) \wedge (m1\_subset\_1\ k24\_sin\_cos\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers)))) \tag{2}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers)))) \Rightarrow (\forall X1.(r2\_fdiff\_1\ X0\ X1) \Rightarrow (\forall X2.((v1\_funct\_1\ X2) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers)))) \Rightarrow ((X2 = k2\_fdiff\_1\ X0\ X1) \Leftrightarrow ((k1\_relset\_1\ k1\_numbers\ X2 = X1) \wedge (\forall X3.(m1\_subset\_1\ X3\ k1\_numbers) \Rightarrow ((X3 \in X1) \Rightarrow (k1\_seq\_1\ X2\ X3 = k1\_fdiff\_1\ X0\ X3))))))) \tag{3}$$

Assume the following.

$$\forall X0.k2\_subset\_1\ X0 = X0 \tag{4}$$

Theorem 1 $k2\_fdiff\_1\ k24\_sin\_cos\ k1\_numbers = k24\_sin\_cos.$