l27_integr16 (TMJ4ynRoyG18ZHCzAvo61XXeMsy2Mr7UrxC)

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Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $k2\_numbers : \iota$ be given. Let $r2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_comseq\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_comseq\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1\_funct\_1\ X0) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k2\_numbers)))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ k1\_numbers)) \Rightarrow (r2\_relset\_1\ k1\_numbers\ k1\_numbers\ (k6\_comseq\_3\ k1\_numbers\ (k2\_partfun1\ k1\_numbers\ k2\_numbers\ X0\ X1))\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ (k6\_comseq\_3\ k1\_numbers\ X0)\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k2\_numbers)))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ k1\_numbers)) \Rightarrow (r2\_relset\_1\ k1\_numbers\ k1\_numbers\ (k5\_comseq\_3\ k1\_numbers\ (k2\_partfun1\ k1\_numbers\ k2\_numbers\ X0\ X1))\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ (k5\_comseq\_3\ k1\_numbers\ X0)\ X1))) \tag{2}$$

Theorem 1

$$\forall X0.((v1\_funct\_1\ X0) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k2\_numbers)))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ k1\_numbers)) \Rightarrow ((r2\_relset\_1\ k1\_numbers\ k1\_numbers\ (k5\_comseq\_3\ k1\_numbers\ (k2\_partfun1\ k1\_numbers\ k2\_numbers\ X0\ X1))\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ (k5\_comseq\_3\ k1\_numbers\ X0)\ X1)) \wedge (r2\_relset\_1\ k1\_numbers\ k1\_numbers\ (k6\_comseq\_3\ k1\_numbers\ (k2\_partfun1\ k1\_numbers\ k2\_numbers\ X0\ X1))\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ (k6\_comseq\_3\ k1\_numbers\ X0)\ X1))))$$