t32_comseq_3 (TM-bXBaD8pukJpt4YqMcpparU4VZT29dwuVh)

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Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $k2\_numbers : \iota$ 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 $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $r2\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_valued\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_series\_1 : \iota \Rightarrow \iota$ be given. Let $k7\_comseq\_3 : \iota \Rightarrow \iota$ be given. Let $k10\_comseq\_3 : \iota \Rightarrow \iota$ be given. Let $k8\_comseq\_3 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1\_funct\_1\ X0) \wedge ((v1\_funct\_2\ X0\ k5\_numbers\ k2\_numbers) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k2\_numbers))))) \Rightarrow ((r2\_funct\_2\ k5\_numbers\ k1\_numbers\ (k3\_series\_1\ (k7\_comseq\_3\ X0))\ (k7\_comseq\_3\ (k10\_comseq\_3\ X0))) \wedge (r2\_funct\_2\ k5\_numbers\ k1\_numbers\ (k3\_series\_1\ (k8\_comseq\_3\ X0))\ (k8\_comseq\_3\ (k10\_comseq\_3\ X0))))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0) \wedge ((v1\_funct\_2\ X0\ k5\_numbers\ k2\_numbers) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k2\_numbers))))) \Rightarrow (\forall X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers) \Rightarrow ((r2\_funct\_2\ k5\_numbers\ k1\_numbers\ (k1\_valued\_0\ k1\_numbers\ (k7\_comseq\_3\ X0)\ X1)\ (k7\_comseq\_3\ (k1\_valued\_0\ k2\_numbers\ X0\ X1))) \wedge (r2\_funct\_2\ k5\_numbers\ k1\_numbers\ (k1\_valued\_0\ k1\_numbers\ (k8\_comseq\_3\ X0)\ X1)\ (k8\_comseq\_3\ (k1\_valued\_0\ k2\_numbers\ X0\ X1))))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ X0\ X1) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))))) \wedge ((v1\_funct\_1\ X3) \wedge ((v1\_funct\_2\ X3\ X0\ X1) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))))) \Rightarrow ((r2\_funct\_2\ X0\ X1\ X2\ X3) \Leftrightarrow (X2 = X3)) \tag{3}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0)\wedge((v1\_funct\_2\ X0\ k5\_numbers\ k2\_numbers)\wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k2\_numbers)))))\Rightarrow ((v1\_funct\_1\ (k8\_comseq\_3\ X0))\wedge((v1\_funct\_2\ (k8\_comseq\_3\ X0)\ k5\_numbers\ k1\_numbers)\wedge(m1\_subset\_1\ (k8\_comseq\_3\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers)))))) \tag{4}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0)\wedge((v1\_funct\_2\ X0\ k5\_numbers\ k2\_numbers)\wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k2\_numbers)))))\Rightarrow ((v1\_funct\_1\ (k7\_comseq\_3\ X0))\wedge((v1\_funct\_2\ (k7\_comseq\_3\ X0)\ k5\_numbers\ k1\_numbers)\wedge(m1\_subset\_1\ (k7\_comseq\_3\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers)))))) \tag{5}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0)\wedge((v1\_funct\_2\ X0\ k5\_numbers\ k1\_numbers)\wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers)))))\Rightarrow ((v1\_funct\_1\ (k3\_series\_1\ X0))\wedge((v1\_funct\_2\ (k3\_series\_1\ X0)\ k5\_numbers\ k1\_numbers)\wedge(m1\_subset\_1\ (k3\_series\_1\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers)))))) \tag{6}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0)\wedge((v1\_funct\_2\ X0\ k5\_numbers\ k2\_numbers)\wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k2\_numbers)))))\Rightarrow ((v1\_funct\_1\ (k10\_comseq\_3\ X0))\wedge((v1\_funct\_2\ (k10\_comseq\_3\ X0)\ k5\_numbers\ k2\_numbers)\wedge(m1\_subset\_1\ (k10\_comseq\_3\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k2\_numbers)))))) \tag{7}$$

Theorem 1

$$\forall X0.((v1\_funct\_1\ X0)\wedge((v1\_funct\_2\ X0\ k5\_numbers\ k2\_numbers)\wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k2\_numbers)))))\Rightarrow (\forall X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers)\Rightarrow((r2\_funct\_2\ k5\_numbers\ k1\_numbers\ (k1\_valued\_0\ k1\_numbers\ (k3\_series\_1\ (k7\_comseq\_3\ X0))\ X1)\ (k7\_comseq\_3\ (k1\_valued\_0\ k2\_numbers\ (k10\_comseq\_3\ X0)\ X1)))\wedge(r2\_funct\_2\ k5\_numbers\ k1\_numbers\ (k1\_valued\_0\ k1\_numbers\ (k3\_series\_1\ (k8\_comseq\_3\ X0))\ X1)\ (k8\_comseq\_3\ (k1\_valued\_0\ k2\_numbers\ (k10\_comseq\_3\ X0)\ X1))))))$$