l28_integra6 (TMRCF-PXv8JYFqiMH9gBrmJcUVme6zY7fgFK)

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Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. 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 $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_integra5 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_integra5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_comseq\_2 : \iota \Rightarrow o$ be given. Let $k2\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k18\_complex1 : \iota \Rightarrow \iota$ be given. Let $k4\_integra5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k56\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xreal\_0\ X2) \Rightarrow (\forall X3.(v1\_xreal\_0\ X3) \Rightarrow (\forall X4.((v1\_funct\_1\ X4) \wedge (m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers)))) \Rightarrow (((r1\_xxreal\_0\ X0\ X1) \wedge ((r1\_integra5\ (k3\_integra5\ X0\ X1)\ X4) \wedge ((v1\_comseq\_2\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ X4\ (k3\_integra5\ X0\ X1))) \wedge ((r1\_tarski\ (k3\_integra5\ X0\ X1)\ (k9\_xtuple\_0\ X4)) \wedge ((X2 \in k3\_integra5\ X0\ X1) \wedge (X3 \in k3\_integra5\ X0\ X1)))))) \Rightarrow ((r1\_tarski\ (k3\_integra5\ (k3\_xxreal\_0\ X2\ X3)\ (k4\_xxreal\_0\ X2\ X3))\ (k9\_xtuple\_0\ (k56\_valued\_1\ k1\_numbers\ k1\_numbers\ X4))) \wedge ((r1\_integra5\ (k3\_integra5\ (k3\_xxreal\_0\ X2\ X3)\ (k4\_xxreal\_0\ X2\ X3))\ (k56\_valued\_1\ k1\_numbers\ k1\_numbers\ X4)) \wedge ((v1\_comseq\_2\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ (k56\_valued\_1\ k1\_numbers\ k1\_numbers\ X4)\ (k3\_integra5\ (k3\_xxreal\_0\ X2\ X3)\ (k4\_xxreal\_0\ X2\ X3)))) \wedge (r1\_xxreal\_0\ (k18\_complex1\ (k4\_integra5\ X2\ X3\ X4))\ (k4\_integra5\ (k3\_xxreal\_0\ X2\ X3)\ (k4\_xxreal\_0\ X2\ X3)\ (k56\_valued\_1\ k1\_numbers\ k1\_numbers\ X4)))))))))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0\ X0) \wedge (v1\_xxreal\_0\ X1)) \Rightarrow (r1\_xxreal\_0\ X0\ X0) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0)\Rightarrow(\forall X1.(v1\_xxreal\_0\ X1)\Rightarrow((r1\_xxreal\_0\ X0\ X1)\Rightarrow(k3\_xxreal\_0\ X0\ X1 = X0))\wedge((\neg r1\_xxreal\_0\ X0\ X1)\Rightarrow(k3\_xxreal\_0\ X0\ X1 = X1)))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0)\Rightarrow(\forall X1.(v1\_xxreal\_0\ X1)\Rightarrow((r1\_xxreal\_0\ X1\ X0)\Rightarrow(k4\_xxreal\_0\ X0\ X1 = X0))\wedge((\neg r1\_xxreal\_0\ X1\ X0)\Rightarrow(k4\_xxreal\_0\ X0\ X1 = X1)))) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0\ X0)\wedge(v1\_xxreal\_0\ X1))\Rightarrow(k4\_xxreal\_0\ X0\ X1 = k4\_xxreal\_0\ X1\ X0) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \tag{6}$$

Theorem 1

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(\forall X1.(v1\_xreal\_0\ X1)\Rightarrow(\forall X2.(v1\_xreal\_0\ X2)\Rightarrow(\forall X3.(v1\_xreal\_0\ X3)\Rightarrow(\forall X4.((v1\_funct\_1\ X4)\wedge(m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers))))\Rightarrow(((r1\_xxreal\_0\ X0\ X1)\wedge((r1\_xxreal\_0\ X2\ X3)\wedge((r1\_integra5\ (k3\_integra5\ X0\ X1)\ X4)\wedge((v1\_comseq\_2\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ X4\ (k3\_integra5\ X0\ X1)))\wedge((r1\_tarski\ (k3\_integra5\ X0\ X1)\ (k9\_xtuple\_0\ X4))\wedge((X2 \in k3\_integra5\ X0\ X1)\wedge(X3 \in k3\_integra5\ X0\ X1)))))))\Rightarrow(r1\_xxreal\_0\ (k18\_complex1\ (k4\_integra5\ X3\ X2\ X4))\ (k4\_integra5\ X2\ X3\ (k56\_valued\_1\ k1\_numbers\ k1\_numbers\ X4))))))))$$