t22_integra6 (TMb92oqiA6uqHT8tj4wME4dPp6pFLehAdMp)

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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 $k56\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18\_complex1 : \iota \Rightarrow \iota$ be given. Let $k4\_integra5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

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

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(\forall X1.(v1\_xreal\_0\ X1)\Rightarrow(\forall X2.(v1\_xreal\_0\ X2)\Rightarrow(\forall X3.(v1\_xreal\_0\ X3)\Rightarrow(\forall X4.((v1\_funct\_1\ X4)\wedge(m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers))))\Rightarrow(((r1\_xxreal\_0\ X0\ X1)\wedge((r1\_xxreal\_0\ X2\ X3)\wedge((r1\_integra5\ (k3\_integra5\ X0\ X1)\ X4)\wedge((v1\_comseq\_2\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ X4\ (k3\_integra5\ X0\ X1)))\wedge((r1\_tarski\ (k3\_integra5\ X0\ X1)\ (k9\_xtuple\_0\ X4))\wedge((X2\in k3\_integra5\ X0\ X1)\wedge(X3\in k3\_integra5\ X0\ X1)))))))\Rightarrow((r1\_tarski\ (k3\_integra5\ X2\ X3)\ (k9\_xtuple\_0\ (k56\_valued\_1\ k1\_numbers\ k1\_numbers\ X4)))\wedge((r1\_integra5\ (k3\_integra5\ X2\ X3)\ (k56\_valued\_1\ k1\_numbers\ k1\_numbers\ X4))\wedge((v1\_comseq\_2\ (k2\_partfun1\ k1\_numbers\ k1\_numbers\ (k56\_valued\_1\ k1\_numbers\ k1\_numbers\ X4)\ (k3\_integra5\ X2\ X3)))\wedge(r1\_xxreal\_0\ (k18\_complex1\ (k4\_integra5\ X2\ X3\ X4))\ (k4\_integra5\ X2\ X3\ (k56\_valued\_1\ k1\_numbers\ k1\_numbers\ X4))))))))))) \tag{2}$$

Theorem 1

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