t29_int_5 (TMYkk17mykFpCfBxStTYh472eZzZcBvwTW5)

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Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_int\_2 : \iota \Rightarrow o$ be given. Let $k3\_int\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $r2\_int\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_2 : \iota$ be given. Let $k2\_int\_5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_int\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $r1\_int\_5 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_xcmplx\_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (\forall X2.\ (v1\_int\_1\ X2) \Rightarrow (((k6\_int\_1\ X1\ X0 = k6\_int\_1\ X2\ X0) \Rightarrow ((X0 = k6\_numbers) \vee (r2\_int\_1\ X1\ X2\ X0))) \wedge ((r2\_int\_1\ X1\ X2\ X0) \Rightarrow (k6\_int\_1\ X1\ X0 = k6\_int\_1\ X2\ X0)))))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (\forall X2.\ (v1\_int\_1\ X2) \Rightarrow ((r2\_int\_1\ X0\ X1\ X2) \Rightarrow (r2\_int\_1\ X1\ X0\ X2)))) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (\forall X2.\ (v7\_ordinal1\ X2) \Rightarrow (((r1\_int\_5\ X0\ X2) \wedge (r2\_int\_1\ X0\ X1\ X2)) \Rightarrow (r1\_int\_5\ X1\ X2)))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.((v7\_ordinal1\ X1) \wedge (v1\_int\_2\ X1)) \Rightarrow (((r1\_int\_5\ X0\ X1) \Rightarrow ((k6\_int\_1\ X0\ X1 = k6\_numbers) \vee (k2\_int\_5\ X0\ X1 = np\_\_1))) \wedge ((((r1\_int\_5\ X0\ X1) \wedge (k6\_int\_1\ X0\ X1 = k6\_numbers)) \Rightarrow (k2\_int\_5\ X0\ X1 = k6\_numbers)) \wedge (\neg(\neg(r1\_int\_5\ X0\ X1) \wedge (k6\_int\_1\ X0\ X1 \neq k6\_numbers)) \wedge ((\neg(r1\_int\_5\ X0\ X1) \wedge (k6\_int\_1\ X0\ X1 = k6\_numbers)) \wedge (k2\_int\_5\ X0\ X1 \neq k4\_xcmplx\_0\ np\_\_1)))))) \tag{4}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (v1\_int\_1\ X0) \tag{5}$$

Theorem 1

$$\forall X0.(v1\_int\_1\ X0)\Rightarrow(\forall X1.((v7\_ordinal1\ X1)\wedge(v1\_int\_2\ X1))\Rightarrow(\forall X2.(v1\_int\_1\ X2)\Rightarrow(((k3\_int\_2\ X0\ X1 = np\_\_1)\wedge(r2\_int\_1\ X0\ X2\ X1))\Rightarrow((r1\_xxreal\_0\ X1\ np\_\_2)\vee(k2\_int\_5\ X0\ X1 = k2\_int\_5\ X2\ X1)))))$$