t33_bcialg_5 (TMaDh39pA1DaVP214DcRbUmH2p1wUaquk9C)

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Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $v8\_bcialg\_1 : \iota \Rightarrow o$ be given. Let $m1\_bcialg\_5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_bcialg\_5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X3.(m2\_subset\_1\ X3\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X4.(m2\_subset\_1\ X4\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X5.(m2\_subset\_1\ X5\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X6.((v8\_bcialg\_1\ X6) \wedge (m1\_bcialg\_5\ X6\ X0\ X1\ X2\ X3)) \Rightarrow (((r1\_xxreal\_0\ X1\ X4) \wedge (r1\_xxreal\_0\ X3\ X5)) \Rightarrow ((v8\_bcialg\_1\ X6) \wedge (m1\_bcialg\_5\ X6\ X5\ X4\ X4\ X5)))))))))) \tag{1}$$

Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X3.(m2\_subset\_1\ X3\ k1\_numbers\ k5\_numbers) \Rightarrow ((r1\_xxreal\_0\ X0\ (k3\_bcialg\_5\ X0\ X1\ X2\ X3)) \wedge ((r1\_xxreal\_0\ X1\ (k3\_bcialg\_5\ X0\ X1\ X2\ X3)) \wedge ((r1\_xxreal\_0\ X2\ (k3\_bcialg\_5\ X0\ X1\ X2\ X3)) \wedge (r1\_xxreal\_0\ X3\ (k3\_bcialg\_5\ X0\ X1\ X2\ X3)))))))) \tag{2}$$

Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X3.(m2\_subset\_1\ X3\ k1\_numbers\ k5\_numbers) \Rightarrow (\neg(k3\_bcialg\_5\ X0\ X1\ X2\ X3 \neq X0) \wedge ((k3\_bcialg\_5\ X0\ X1\ X2\ X3 \neq X1) \wedge ((k3\_bcialg\_5\ X0\ X1\ X2\ X3 \neq X2) \wedge (k3\_bcialg\_5\ X0\ X1\ X2\ X3 \neq X3))))))) \tag{3}$$

Theorem 1

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X2.(m2\_subset\_1\ X2\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X3.(m2\_subset\_1\ X3\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X4.(m2\_subset\_1\ X4\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X5.((v8\_bcialg\_1\ X5)\wedge(m1\_bcialg\_5\ X5\ X0\ X1\ X2\ X3))\Rightarrow((r1\_xxreal\_0\ (k3\_bcialg\_5\ X0\ X1\ X2\ X3)\ X4)\Rightarrow((v8\_bcialg\_1\ X5)\wedge(m1\_bcialg\_5\ X5\ X4\ X4\ X4\ X4)))))))$$