

t41_rat_1 (TMJdEm-
RdKi52GrjccVgjBcRDBpSWUBPvpvs)

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Let $v1_rat_1 : \iota \Rightarrow o$ be given. Let $k1_rat_1 : \iota \Rightarrow \iota$ be given. Let $k2_rat_1 : \iota \Rightarrow \iota$ be given. Let $k6_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_real_1 : \iota \Rightarrow \iota$ be given. Let $k8_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_rat_1 X0) \Rightarrow ((X0 = k6_real_1 (k2_rat_1 X0) (k1_rat_1 \\ X0)) \wedge ((X0 = k4_real_1 (k2_rat_1 X0) (k2_real_1 (k1_rat_1 X0))) \wedge \\ (X0 = k8_real_1 (k2_real_1 (k1_rat_1 X0)) (k2_rat_1 X0)))) \end{aligned} \quad (1)$$

Theorem 1

$$\forall X0.(v1_rat_1 X0) \Rightarrow (\forall X1.(v1_rat_1 X1) \Rightarrow (((k1_rat_1 \\ X0 = k1_rat_1 X1) \wedge (k2_rat_1 X0 = k2_rat_1 X1)) \Rightarrow (X0 = X1)))$$