

t18_rat_1

(TMUR2b3WTBEeu7sXdTBJN9rXcErtUkaWeyH)

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Let $v1_rat_1 : \iota \Rightarrow o$ be given. Let $k2_rat_1 : \iota \Rightarrow \iota$ be given. Let $k1_rat_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ 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.

$$\forall X0.(v1_rat_1 X0) \Rightarrow ((v1_int_1 X0) \Rightarrow ((k1_rat_1 X0 = np_1) \wedge (k2_rat_1 X0 = X0))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_rat_1 X0) \Rightarrow ((X0 = k6_real_1 (k2_rat_1 X0) (k1_rat_1 X0)) \wedge ((X0 = k4_real_1 (k2_rat_1 X0) (k2_real_1 (k1_rat_1 X0))) \wedge (X0 = k8_real_1 (k2_real_1 (k1_rat_1 X0)) (k2_rat_1 X0)))) \quad (2)$$

Assume the following.

$$\forall X0.(v1_rat_1 X0) \Rightarrow (v1_int_1 (k2_rat_1 X0)) \quad (3)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (v1_rat_1 X0) \quad (4)$$

Theorem 1

$$\forall X0.(v1_rat_1 X0) \Rightarrow (((k2_rat_1 X0 = X0) \vee (k1_rat_1 X0 = np_1)) \Rightarrow (v1_int_1 X0))$$