t64_asympt_1 (TMFGngteaPh9ZJshAWV3Y5WeucBTkpifHht)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Let $k4\_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_numbers) \wedge (m1\_subset\_1\ X1\ k1\_numbers)) \Rightarrow (k4\_power\ X0\ X1 = k3\_power\ X0\ X1) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2.(v1\_xreal\_0\ X2) \Rightarrow (((r1\_xxreal\_0\ X0\ X1) \wedge (r1\_xxreal\_0\ k6\_numbers\ X2)) \Rightarrow ((r1\_xxreal\_0\ X0\ k6\_numbers) \vee (r1\_xxreal\_0\ (k3\_power\ X0\ X2)\ (k3\_power\ X1\ X2))))))) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (v1\_xreal\_0\ X0) \tag{3}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k1\_numbers) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k1\_numbers) \Rightarrow (((r1\_xxreal\_0\ X0\ X1) \wedge (r1\_xxreal\_0\ k6\_numbers\ X2)) \Rightarrow ((r1\_xxreal\_0\ X0\ k6\_numbers) \vee (r1\_xxreal\_0\ (k4\_power\ X0\ X2)\ (k4\_power\ X1\ X2))))))$$