

## t50\_stirl2\_1

(TMMkiHhSTTgvLcqe1Em6P5B7ZsXngJPbni1)

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Let  $k9\_newton : \iota \Rightarrow \iota$  be given. Let  $np\_3 : \iota$  be given. Let  $np\_6 : \iota$  be given. Let  $np\_4 : \iota$  be given. Let  $np\_24 : \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k3\_newton : \iota \Rightarrow \iota$  be given. Let  $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k8\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $v2\_xxreal\_0 : \iota \Rightarrow o$  be given. 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  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k4\_ordinal1 : \iota$  be given. Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (k3\_newton (k1\_nat\_1 X0 np\_1) = k8\_real\_1 (k3\_newton X0) (k1\_nat\_1 X0 np\_1)) \quad (1)$$

Assume the following.

$$k3\_newton np\_2 = np\_2 \quad (2)$$

Assume the following.

$$((v2\_xxreal\_0 np\_6) \wedge (m2\_subset\_1 np\_6 k1\_numbers k5\_numbers)) \wedge ((m1\_subset\_1 np\_6 k5\_numbers) \wedge (m1\_subset\_1 np\_6 k1\_numbers)) \quad (3)$$

Assume the following.

$$((v2\_xxreal\_0 np\_4) \wedge (m2\_subset\_1 np\_4 k1\_numbers k5\_numbers)) \wedge ((m1\_subset\_1 np\_4 k5\_numbers) \wedge (m1\_subset\_1 np\_4 k1\_numbers)) \quad (4)$$

Assume the following.

$$((v2\_xxreal\_0 np\_3) \wedge (m2\_subset\_1 np\_3 k1\_numbers k5\_numbers)) \wedge ((m1\_subset\_1 np\_3 k5\_numbers) \wedge (m1\_subset\_1 np\_3 k1\_numbers)) \quad (5)$$

Assume the following.

$$((v2\_xxreal\_0 np\_2) \wedge (m2\_subset\_1 np\_2 k1\_numbers k5\_numbers)) \wedge ((m1\_subset\_1 np\_2 k5\_numbers) \wedge (m1\_subset\_1 np\_2 k1\_numbers)) \quad (6)$$

Assume the following.

$$\begin{aligned} & ((v2\_xreal\_0 \ np\_1) \wedge (m2\_subset\_1 \ np\_1 \ k1\_numbers \ k5\_numbers)) \wedge \\ & ((m1\_subset\_1 \ np\_1 \ k5\_numbers) \wedge (m1\_subset\_1 \ np\_1 \ k1\_numbers)) \end{aligned} \quad (7)$$

Assume the following.

$$k3\_xcmplx\_0 \ np\_4 \ np\_6 = np\_24 \quad (8)$$

Assume the following.

$$k3\_xcmplx\_0 \ np\_2 \ np\_3 = np\_6 \quad (9)$$

Assume the following.

$$k2\_xcmplx\_0 \ np\_3 \ np\_1 = np\_4 \quad (10)$$

Assume the following.

$$k2\_xcmplx\_0 \ np\_2 \ np\_1 = np\_3 \quad (11)$$

Assume the following.

$$\forall X0. (v7\_ordinal1 \ X0) \Rightarrow (k9\_newton \ X0 = k3\_newton \ X0) \quad (12)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((m1\_subset\_1 \ X0 \ k1\_numbers) \wedge (v1\_xreal\_0 \\ & \ X1)) \Rightarrow (k8\_real\_1 \ X0 \ X1 = k3\_xcmplx\_0 \ X0 \ X1) \end{aligned} \quad (13)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (14)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v7\_ordinal1 \ X0) \wedge (m1\_subset\_1 \ X1 \ k5\_numbers)) \Rightarrow \\ & (k1\_nat\_1 \ X0 \ X1 = k2\_xcmplx\_0 \ X0 \ X1) \end{aligned} \quad (15)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((m1\_subset\_1 \ X0 \ k1\_numbers) \wedge (v1\_xreal\_0 \\ & \ X1)) \Rightarrow (k8\_real\_1 \ X0 \ X1 = k8\_real\_1 \ X1 \ X0) \end{aligned} \quad (16)$$

Assume the following.

$$\forall X0. (m1\_subset\_1 \ X0 \ k4\_ordinal1) \Rightarrow (v7\_ordinal1 \ X0) \quad (17)$$

Assume the following.

$$\forall X0. (m1\_subset\_1 \ X0 \ k1\_numbers) \Rightarrow (v1\_xreal\_0 \ X0) \quad (18)$$

**Theorem 1**  $(k9\_newton \ np\_3 = np\_6) \wedge (k9\_newton \ np\_4 = np\_24)$ .