

Inference at *
of proof for Lemma complete_nat_ind_with_y:

$\vdash \forall P: (\mathbb{N} \rightarrow \mathbb{P}\{\mathbf{k}\}). (\forall i:\mathbb{N}. (\forall j:\mathbb{N}i. P(j)) \Rightarrow P(i)) \Rightarrow (\forall i:\mathbb{N}. P(i))$
by UseWitness $\lambda P, g. Y(\lambda f, x. g(x, f))$

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$\vdash (\lambda P, g. Y(\lambda f, x. g(x, f)))$
 $\in (\forall P: (\mathbb{N} \rightarrow \mathbb{P}\{\mathbf{k}\}). (\forall i:\mathbb{N}. (\forall j:\mathbb{N}i. P(j)) \Rightarrow P(i)) \Rightarrow (\forall i:\mathbb{N}. P(i)))$

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