Inference at $*$ 1
 of proof for Lemma nat_sq:

1. $x : \mathbb{N}$
2. $y : \mathbb{N}$
3. $x = y$

$\vdash x \sim y$

 by ((With $\mathbb{Z}$ SqEqual)
 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 2:n
 ),(first_nat 3:n)) (first_tok :t) inil_term)))·

 .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_87168_{nat_sq}1.html