

Theorema 2.0: A First Tour

NB reached List of cells reached CellGroupData reached List of cells reached
NullCell reached

We consider “proving”, “computing”, and “solving” as the three basic mathematical activities.

CellGroupData reached List of cells reached

1 Proving

We want to prove

$$(\forall_x (P[x] \vee Q[x])) \wedge (\forall_y (P[y] \Rightarrow Q[y])) \Leftrightarrow (\forall_x Q[x]).$$

To prove a formula like the above, we need to enter it in the context of a Theorema environment.

1.1 Proposition (First Test, 2014)

Testing MakeBoxes Style \neg Iff $+$ arg is: Testing HoldComplete \neg

Cell reached CellGroupData reached List of cells reached Cell reached Cell
reached Cell reached Cell reached Cell reached Cell reached Cell reached Cell
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cells reached

2 Computing

CellGroupData reached List of cells reached Cell reached

2.0.1 Global Declaration

\forall
 a, b
 $a = b$

2.1 [?]

Testing MakeBoxes Style $-i$ Forall + arg is: Testing HoldComplete $-i$

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2.1.1 Global Declaration

\forall
 K

2.1.2 Global Declaration

$\text{Mon}[K] := \Delta_M$

2.1.3 Global Declaration

\forall
 $m1, m2$

2.2 [?]

Testing MakeBoxes Style $-i$ Forall + arg is: Testing HoldComplete $-i$

2.3 [?]

Testing MakeBoxes Style $-i$ Forall + arg is: Testing HoldComplete $-i$

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3 Set Theory

CellGroupData reached List of cells reached Cell reached

3.0.1 Global Declaration

$\forall_{x,y}$

3.1 [?]

Testing MakeBoxes Style \neg_i Forall + arg is: Testing HoldComplete \neg_i

■Cell reached

3.2 Proposition (transitivity of \subseteq)

Testing MakeBoxes Style \neg_i Forall + arg is: Testing HoldComplete \neg_i

Cell reached CellGroupData reached List of cells reached Cell reached Cell
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