

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)

Test getTmaData with id-param! Test Tma Data!

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

2 Computing

2.1 Definition (Lexical Ordering)

2.1.1 Global Declaration

$$\forall_{a,b} \\ a=b$$

2.2 [?]

Test getTmaData with id-param! Test Tma Data!



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

2.3 Definition (Monomials)

2.3.1 Global Declaration

\forall_K

2.3.2 Global Declaration

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

2.3.3 Global Declaration

$\forall_{m1,m2}$

2.4 [?]

Test getTmaData with id-param! Test Tma Data!

2.5 [?]

Test getTmaData with id-param! Test Tma Data!



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

3 Set Theory

3.1 Definition (subset)

3.1.1 Global Declaration

\forall
 x,y

3.2 [?]

Test getTmaData with id-param! Test Tma Data!



Cell reached

3.3 Proposition (transitivity of \subseteq)

Test getTmaData with id-param! Test Tma Data!

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