Theorema 2.0: A First Tour

NB reached List reached2 CellGroupData reached List reached2 NullCell reached

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

CellGroupData reached List reached2

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.

Cell reached CellGroupData reached List reached2 Cell reached Cell reached Cell reached Cell reached Cell reached CellGroupData reached List reached2 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 reached2

2 Computing

Cell reached CellGroupData reached List reached2 Cell reached Cell reached Cell reached Cell reached Cell reached Cell reached CellGroupData reached List reached2 Cell reached Cell reached CellGroupData reached List reached2 Cell reached Cell reached Cell reached Cell reached Cell reached Cell reached Cell reached Cell reached Cell reached Cell reached CellGroupData reached List reached2

3 Set Theory

Cell reached CellGroupData reached List reached2 Cell reached Cell reached Cell reached Cell reached Cell reached Cell reached CellGroupData reached List reached2 Cell reached Cell reached Cell reached Cell reached CellGroupData reached List reached2 Cell reached Cell reached CellGroupData reached List reached2 Cell reached Cell reached