

## 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)

row box in box data test ■

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)

Cell reached row box in box data test ■

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

### 2.2 Definition (Monomials)

Cell reached Cell reached Cell reached row box in box data testrow box in box data test ■

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

## 3 Set Theory

### 3.1 Definition (subset)

Cell reached row box in box data test ■

Cell reached

### 3.2 Proposition (transitivity of )

row box in box data test ■

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