

```

⊢ ∀[A,B:ℙ]. {A ∨ B ∨ (¬B) ⇔ B ∨ (¬B)}
|
BY (D 0 THENA Auto)
| \
| 1. A: ℙ
| ⊢ ∀[B:ℙ]. {A ∨ B ∨ (¬B) ⇔ B ∨ (¬B)}
| |
1 BY (D 0 THENA Auto)
| | \
| | 2. B: ℙ
| | ⊢ {A ∨ B ∨ (¬B) ⇔ B ∨ (¬B)}
| | |
1 2 BY RepeatFor 4 ((D 0 THENA Auto))
| | | \
| | | 3. A ∨ B ∨ (¬B)
| | | ⊢ {B ∨ (¬B)}
| | | |
1 2 3 BY (ClassicalContradiction THENA Auto)
| | | |
| | | 4. ¬(B ∨ (¬B))
| | | ⊢ {B ∨ (¬B)}
| | | |
1 2 3 BY (ElimClassical THENA Auto)
| | | |
| | | ⊢ B ∨ (¬B)
| | | |
1 2 3 BY (OrRight THENA Auto)
| | | |
| | | ⊢ ¬B
| | | |
1 2 3 BY (D 0 THENA Auto)
| | | |
| | | 5. B
| | | ⊢ False
| | | |
1 2 3 BY D 4
| | | |
| | | 4. B
| | | ⊢ B ∨ (¬B)
| | | |
1 2 3 BY (OrLeft THENA Auto)
| | | |
| | | ⊢ B
| | | |
1 2 3 BY Hypothesis
| | \
| | 3. B ∨ (¬B)
| | ⊢ {A ∨ B ∨ (¬B)}
| | |
1 2 BY (ElimClassical THENA Auto)
| | |
| | ⊢ A ∨ B ∨ (¬B)
| | |
1 2 BY (OrRight THENA Auto)
| | |
| | ⊢ B ∨ (¬B)

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| | |
1 2  BY Hypothesis
| \
|  2. B:  $\mathbb{P}$ 
|  3.  $\{x:\text{Unit} \mid A \vee B \vee (\neg B) \iff B \vee (\neg B)\}$ 
|   $\vdash Ax \in \{x:\text{Unit} \mid A \vee B \vee (\neg B) \iff B \vee (\neg B)\}$ 
|  |
1  BY Auto
| \
|  1. A:  $\mathbb{P}$ 
|  2. B:  $\mathbb{P}$ 
|  3.  $\{x:\text{Unit} \mid A \vee B \vee (\neg B) \iff B \vee (\neg B)\}$ 
|   $\vdash Ax \in \{x:\text{Unit} \mid A \vee B \vee (\neg B) \iff B \vee (\neg B)\}$ 
|  |
|  BY Auto

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