**Logic Tool Results**

Logical Expression: (p∨(q→p))∧q⊢p

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Line | Expression | Rule | First Segment | Second Segment | Third Segment |
| 1 | (p∨(q→p))∧q | Data |  |  |  |
| 2 | q | ∧e2 | 1 |  |  |
| 3 | p∨(q→p) | ∧e1 | 1 |  |  |
| ┌--------------------------------------------------------------------------------------------------------------┐ | | | | | |
| 4 | p | Assumption |  |  |  |
| 5 | p | Copy | 4 |  |  |
| └--------------------------------------------------------------------------------------------------------------┘ | | | | | |
| ┌--------------------------------------------------------------------------------------------------------------┐ | | | | | |
| 6 | q→p | Assumption |  |  |  |
| 7 | p | MP | 2 | 6 |  |
| └--------------------------------------------------------------------------------------------------------------┘ | | | | | |
| 8 | p | ∨e | 3 | 4-5 | 6-7 |