**Logic Tool Results**

Logical Expression: q→r⊢p∨q→q∨r

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Line | Expression | Rule | First Segment | Second Segment | Third Segment |
| 1 | q→r | Data |  |  |  |
| ┌--------------------------------------------------------------------------------------------------------------┐ | | | | | |
| 2 | p∨q | Assumption |  |  |  |
| ┌------------------------------------------------------------------------------------------------------┐ | | | | | |
| 3 | p | Assumption |  |  |  |
| 4 | p∨r | ∨i1 | 3 |  |  |
| └------------------------------------------------------------------------------------------------------┘ | | | | | |
| ┌------------------------------------------------------------------------------------------------------┐ | | | | | |
| 5 | q | Assumption |  |  |  |
| 6 | r | MP | 1 | 5 |  |
| 7 | p∨r | ∨i2 | 6 |  |  |
| └------------------------------------------------------------------------------------------------------┘ | | | | | |
| └--------------------------------------------------------------------------------------------------------------┘ | | | | | |
| 8 | p∨r | ∨e | 2 | 3-4 | 5-7 |