**Logic Tool Results**

Logical Expression: ¬p∨¬q⊢¬(q∧p)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Line | Expression | Rule | First Segment | Second Segment | Third Segment |
| 1 | ¬p∨¬q | Data |  |  |  |
| ┌--------------------------------------------------------------------------------------------------------------┐ | | | | | |
| 2 | q∧p | Assumption |  |  |  |
| 3 | q | ∧e1 | 2 |  |  |
| 4 | p | ∧e2 | 2 |  |  |
| ┌------------------------------------------------------------------------------------------------------┐ | | | | | |
| 5 | ¬p | Assumption |  |  |  |
| 6 | ⊥ | ¬e | 4 | 5 |  |
| └------------------------------------------------------------------------------------------------------┘ | | | | | |
| ┌------------------------------------------------------------------------------------------------------┐ | | | | | |
| 7 | ¬q | Assumption |  |  |  |
| 8 | ⊥ | ¬e | 7 | 3 |  |
| └------------------------------------------------------------------------------------------------------┘ | | | | | |
| 9 | ⊥ | ∨e | 1 | 5-6 | 7-8 |
| └--------------------------------------------------------------------------------------------------------------┘ | | | | | |
| 10 | ¬(q∧p) | ¬i | 2-9 |  |  |