**Logic Tool Results**

Logical Expression: p∧q⊢¬(p→¬q)

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