**Logic Tool Results**

Logical Expression:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Line | Expression | Rule | First Segment | Second Segment | Third Segment |
| ┌--------------------------------------------------------------------------------------------------------------┐ | | | | | |
| 1 | p | Assumption |  |  |  |
| ┌------------------------------------------------------------------------------------------------------┐ | | | | | |
| 2 | q | Assumption |  |  |  |
| 3 | p∧q | ∧i | 1 | 2 |  |
| └------------------------------------------------------------------------------------------------------┘ | | | | | |
| 4 | q→p∧q | →i | 2-3 |  |  |
| 5 | p∧q | Copy | 3 |  |  |
| └--------------------------------------------------------------------------------------------------------------┘ | | | | | |
| 6 | p→(p∧q) | →i | 1-5 |  |  |