**Logic Tool Results**

Logical Expression: ⊢p→(q→(p^q))

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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→(p^q)) | →i | 1-4 |  |  |