**Logic Tool Results**

Logical Expression: ¬((p∨r)∧(t∧s))→¬q, (s→p)→(t∧s), ¬(p∨r)⊢((p∨r)∨(t∧s))→(q∧(s→p))

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Line | Expression | Rule | First Segment | Second Segment | Third Segment |
| 1 | ¬(β∧δ)→¬ε,γ→δ,¬β⊢(β∨δ)→(ε∧γ) | Proven i |  |  |  |
| 2 | ¬((p∨r)∧(t∧s))→¬q | Data |  |  |  |
| 3 | (s→p)→(t∧s) | Data |  |  |  |
| 4 | ¬(p∨r) | Data |  |  |  |
| 5 | ((p∨r)∨(t∧s))→(q∧(s→p)) | Proven e | 1 | 2,3,4 |  |