**Logic Tool Results**

Logical Expression: p→q, s→t⊢p∧s→q∧t

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Line | Expression | Rule | First Segment | Second Segment | Third Segment |
| 1 | p→q | Data |  |  |  |
| 2 | s→t | Data |  |  |  |
| ┌--------------------------------------------------------------------------------------------------------------┐ | | | | | |
| 3 | p∧s | Assumption |  |  |  |
| 4 | p | ∧e1 | 3 |  |  |
| 5 | q | MP | 1 | 4 |  |
| 6 | s | ∧e2 | 3 |  |  |
| 7 | t | MP | 2 | 6 |  |
| 8 | q∧t | ∧i | 5 | 7 |  |
| └--------------------------------------------------------------------------------------------------------------┘ | | | | | |
| 9 | p∧s→q∧t | →i | 3-8 |  |  |