**Logic Tool Results**

Logical Expression: (p→q)∧(p→r)⊢p→q∧r

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