**Logic Tool Results**

Logical Expression: p∧(q∧(r∧s))⊢((p∧q)∧r)∧s

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Line | Expression | Rule | First Segment | Second Segment | Third Segment |
| 1 | p∧(q∧(r∧s)) | Data |  |  |  |
| 2 | q∧(r∧s) | ∧e2 | 1 |  |  |
| 3 | r∧s | ∧e2 | 2 |  |  |
| 4 | r | ∧e1 | 3 |  |  |
| 5 | s | ∧e2 | 3 |  |  |
| 6 | q | ∧e1 | 2 |  |  |
| 7 | p | ∧e1 | 1 |  |  |
| 8 | p∧q | ∧i | 6 | 7 |  |
| 9 | (p∧q)∧r | ∧i | 4 | 8 |  |
| 10 | ((p∧q)∧r)∧s | ∧i | 5 | 9 |  |