⌐ (q Ʌ r) V (p V r)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| p | q | R | (q Ʌ r) | ⌐ (q Ʌ r) | (p V r) | ⌐ (q Ʌ r) V (p V r) |
| T | T | T | T | F | T | T |
| T | T | F | F | T | T | T |
| T | F | T | F | T | T | T |
| T | F | F | F | T | T | T |
| F | T | T | T | F | T | T |
| F | T | F | F | T | F | T |
| F | F | T | F | T | T | T |
| F | F | F | F | T | F | T |

⌐ (p Ʌ q) ≡ (⌐p Ѵ ⌐q)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| p | q | (p Ʌ q) | ⌐ (p Ʌ q) | ⌐p | ⌐q | (⌐p Ѵ ⌐q) |
| T | T | T | F | F | F | F |
| T | F | F | T | F | T | T |
| F | T | F | T | T | F | T |
| F | F | T | T | T | T | T |