|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | X4 | X3 | X2 | X1 | y |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 1 | 0 |
| 2 | 0 | 0 | 1 | 0 | 0 |
| 3 | 0 | 0 | 1 | 1 | 0 |
| 4 | 0 | 1 | 0 | 0 | 1 |
| 5 | 0 | 1 | 0 | 1 | 0 |
| 6 | 0 | 1 | 1 | 0 | 1 |
| 7 | 0 | 1 | 1 | 1 | 0 |
| 8 | 1 | 0 | 0 | 0 | 0 |
| 9 | 1 | 0 | 0 | 1 | 1 |
| 10 | 1 | 0 | 1 | 0 | 1 |
| 11 | 1 | 0 | 1 | 1 | 1 |
| 12 | 1 | 1 | 0 | 0 | 1 |
| 13 | 1 | 1 | 0 | 1 | 1 |
| 14 | 1 | 1 | 1 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 0 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| x4,x3\x2,x1 | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 0 | 0 |
| 01 | 1 | 0 | 0 | 1 |
| 11 | 1 | 1 | 0 | 0 |
| 10 | 0 | 1 | 1 | 1 |

!x4 x3 !x1 + x4 !x3 x2 + x4 !x2 x1 + x3 !x2 !x1

Для базиса not band nand: !!( !x4 x3 !x1 + x4 !x3 x2 + x4 !x2 x1 + x3 !x2 !x1) = !(!(!x4 x3 !x1) !(x4 !x3 x2) !(x4 !x2 x1) !(x3 !x2 !x1))

Для базиса not, bor, nor: !(x4 + !x3 + x1) + !(!x4 + x3 + !x2) + !(!x4 + x2 + !x1) + !(!x3 + x2 + x1)