|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| x4 | x3 | x2 | x1 | x1 xor x2 | not x3 | not x3 or x4 | (x1 xor x2)(not x3 or x4) |  |
| 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 2 |
| 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 3 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 5 |
| 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 6 |
| 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 7 |
| 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 8 |
| 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 9 |
| 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | a |
| 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | b |
| 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | c |
| 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | d |
| 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | e |
| 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | f |