|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 4 | 3 | 2 | -1 | 8 | 4 | 3 | -6 |
|  | X1 | X2 | X3 | X4 | Y1 | Y2 | Y3 | Y4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 1 |
| 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| 3 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| 4 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| 5 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 6 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| 7 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| 8 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 9 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| 10 | 0 | 0 | 0 | 1 | \* | \* | \* | \* |
| 11 | 0 | 1 | 0 | 1 | \* | \* | \* | \* |
| 12 | 1 | 0 | 0 | 0 | \* | \* | \* | \* |
| 13 | 1 | 0 | 0 | 1 | \* | \* | \* | \* |
| 14 | 1 | 0 | 1 | 1 | \* | \* | \* | \* |
| 15 | 1 | 1 | 0 | 1 | \* | \* | \* | \* |



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| X1x2  X3x4 | 00 | 01 | 11 | 10 |
| 00 |  |  |  | \* |
| 01 | \* | \* | \* | \* |
| 11 |  |  | 1 | \* |
| 10 | 1 | 1 | 1 | 1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| X1x2  X3x4 | 00 | 01 | 11 | 10 |
| 00 |  |  | 1 | \* |
| 01 | \* | \* | \* | \* |
| 11 | 1 | 1 |  | \* |
| 10 |  |  | 1 | 1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| X1x2  X3x4 | 00 | 01 | 11 | 10 |
| 00 |  | 1 | 1 | \* |
| 01 | \* | \* | \* | \* |
| 11 | 1 |  |  | \* |
| 10 |  | 1 | 1 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| X1x2  X3x4 | 00 | 01 | 11 | 10 |
| 00 |  |  |  | \* |
| 01 | \* | \* | \* | \* |
| 11 | 1 |  |  | \* |
| 10 | 1 | 1 | 1 | 1 |

În rezultatul minimizării au fost obţinute următoarele funcţii logice:

Luînd în consideraţie conjuncţiile comune, funcţiile f4, f3, f2, f1 pot fi scrise în felul următor:

Unde:

Forma si-nu/si nu