|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| DZIAŁANIA LOGICZNENA LICZBACH BINARNYCH | | | | |
| 1 | 2 | 3 | 4 | 5 |
| **BRAMKA OR (lub) – SUMA LOGICZNA** | | | | |
| **a** | **b** | **a OR b (ab)** | **symbol** | **WYKONAJ DZIAŁANIE** |
| 0 | 0 |  |  | 1010 |
| 1 | 0 |  | OR 1111 |
| 0 | 1 |  | 11 |
| 1 | 1 |  |  |
| **BRAMKA AND (i) – ILOCZYN LOGICZNY** | | | | |
| **a** | **b** | **a AND b (ab)** | **symbol** | **WYKONAJ DZIAŁANIE** |
| 0 | 0 |  |  | 1010 |
| 1 | 0 |  | AND 1111 |
| 0 | 1 |  | 1010 |
| 1 | 1 |  |  |
| **BRAMKA NOT – NEGACJA ZMIENNEJ WEJŚCIOWEJ** | | | | |
| **a** |  | **a NOT b (ab)** | **symbol** | **WYKONAJ DZIAŁANIE** |
| 0 |  |  |  | NOT 1010 |
| 1 |  |  |  |
| 0 |  |  | 0101 |
| 1 |  |  |  |
| **BRAMKA NAND (nie i) – NEGACJA ILOCZYNU LOGICZNEGO** | | | | |
| **a** | **b** | **a NAND b (ab)** | **symbol** | **WYKONAJ DZIAŁANIE** |
| 0 | 0 |  |  | 1010 |
| 1 | 0 |  | NAND 1111 |
| 0 | 1 |  |  |
| 1 | 1 |  | 0101 |
| **BRAMKA NOR (nie lub) – NEGACJA SUMY ZMIENNYCH** | | | | |
| **a** | **b** | **a NOR b (ab)** | **symbol** | **WYKONAJ DZIAŁANIE** |
| 0 | 0 |  |  | 1010 |
| 1 | 0 |  | NOR 1111 |
| 0 | 1 |  |  |
| 1 | 1 |  | 0000 |
| **BRAMKA EX-OR (XOR)** | | | | |
| **a** | **b** | **a EX-OR b (ab)** | **symbol** | **WYKONAJ DZIAŁANIE** |
| 0 | 0 |  |  | 1010 |
| 1 | 0 |  | EX-OR (XOR) 1111 |
| 0 | 1 |  | 0101 |
| 1 | 1 |  |  |
| **BRAMKA EX-NOR** | | | | |
| **a** | **b** | **a EX-NOR b (ab)** | **symbol** | **WYKONAJ DZIAŁANIE** |
| 0 | 0 |  |  | 1010 |
| 1 | 0 |  | EX-NOR 1111 |
| 0 | 1 |  | 1010 |
| 1 | 1 |  |  |