|  |  |  |  |
| --- | --- | --- | --- |
| **FUNKCJA LOGICZNA** | **ZAPIS MATEMATYCZNY FUNKCJI** | **SYMBOL BRAMKI LOGICZNEJ** | **TABLICA PRAWDY** |
| A, B – wejścia bramki Y – wyjście bramki | | | |
| **NOT**  (negacja) |  |  | |  |  | | --- | --- | | **A** | **Y** | | 0 | 1 | | 1 | 0 | |
| **OR**  (suma logiczna) |  |  | |  |  |  | | --- | --- | --- | | **A** | **B** | **Y** | | 0 | 0 | 0 | | 0 | 1 | 1 | | 1 | 0 | 1 | | 1 | 1 | 1 | |
| **NOR**  (negacja sumy) |  |  | |  |  |  | | --- | --- | --- | | **A** | **B** | **Y** | | 0 | 0 | 1 | | 0 | 1 | 0 | | 1 | 0 | 0 | | 1 | 1 | 0 | |
| **AND**  (iloczyn logiczny) |  |  | |  |  |  | | --- | --- | --- | | **A** | **B** | **Y** | | 0 | 0 | 0 | | 0 | 1 | 0 | | 1 | 0 | 0 | | 1 | 1 | 1 | |
| **NAND**  (negacja iloczynu) |  |  | |  |  |  | | --- | --- | --- | | **A** | **B** | **Y** | | 0 | 0 | 1 | | 0 | 1 | 1 | | 1 | 0 | 1 | | 1 | 1 | 0 | |
| **XOR**  (alternatywa wykluczająca) |  |  | |  |  |  | | --- | --- | --- | | **A** | **B** | **Y** | | 0 | 0 | 0 | | 0 | 1 | 1 | | 1 | 0 | 1 | | 1 | 1 | 0 | |
| **XNOR**  (negacja alternatywy) |  |  | |  |  |  | | --- | --- | --- | | **A** | **B** | **Y** | | 0 | 0 |  | | 0 | 1 |  | | 1 | 0 |  | | 1 | 1 |  | |