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| **Logic Functions** | **Logic Gates** | **NAND & NOR as Universal Gates** | |
| **NAND** | **NOR** |
| **NOT** |  |  |  |
| **AND** |  |  |  |
| **OR** |  |  |  |
| **NAND** |  |  |  |
| **NOR** |  |  |  |
| **XOR** |  | Delay 3 times | Delay 3 times |
|  |  |
| Delay 4 times | Delay 4 times |
|  |  |
| **XNOR** |  | Delay 3 times | Delay 3 times |
|  |  |
| Delay 4 times | Delay 4 times |
|  |  |