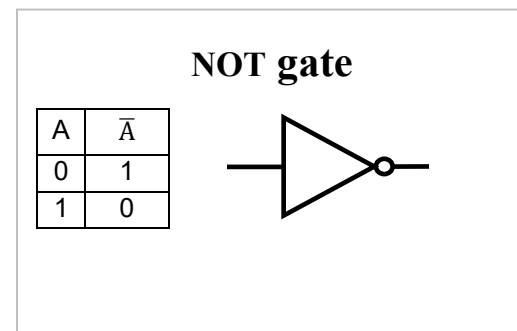
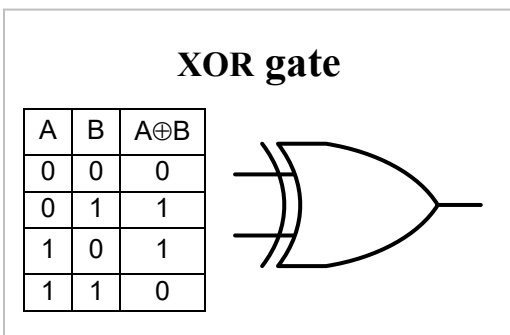
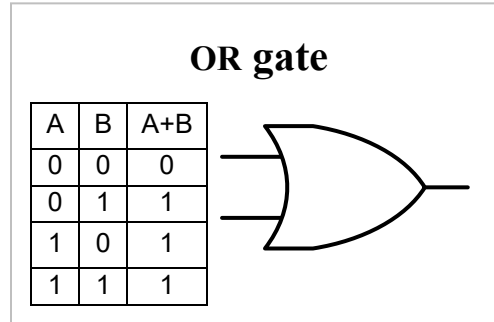
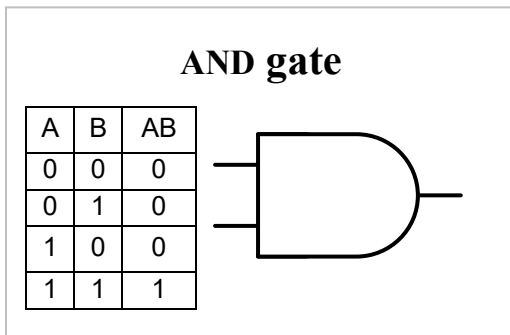


Digital Logic Fundamentals

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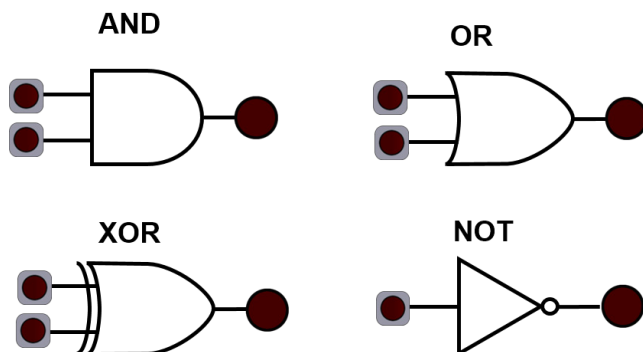
Logic gates we will use:



Other important logic gates: NAND, NOR, EQUIV also called XNOR. For further study, look these up. There are 16 possible Boolean functions of two inputs, of which ten are useful.

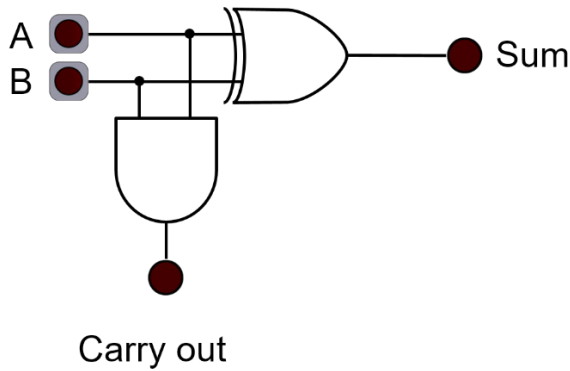
Exercise:

“Wire” each of the above gate in Digital Works and verify that they compute the given truth tables.



Exercise:

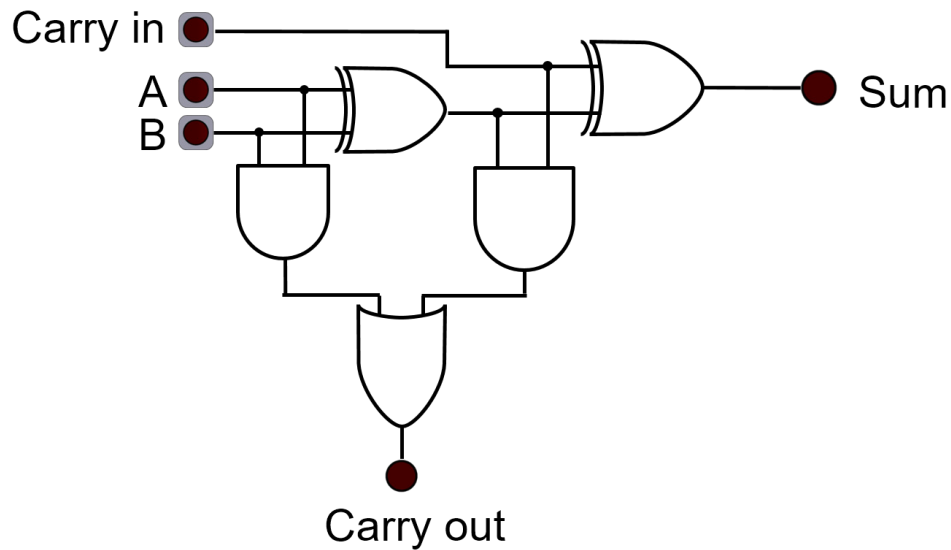
Build this circuit in Digital Works, then fill in the truth table by trying all possible values.



A	B	S	C _o
0	0		
0	1		
1	0		
1	1		

Exercise:

Build a full adder in Digital Works, test it, and save it to your One Drive, network drive, or flash drive.



College of Computing and Software Engineering

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