

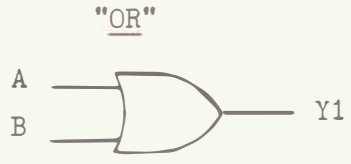
UNDERSTANDING BASIC GATING

(Gates vs Functions, Functions vs Input Levels)

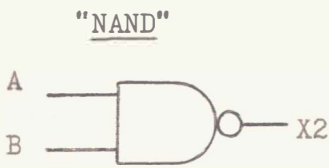
Basic gates



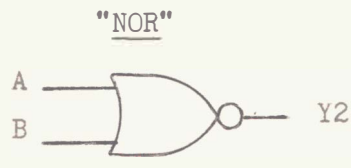
A	B	X ₁
0	0	0
0	1	0
1	0	0
1	1	1



A	B	Y ₁
0	0	0
0	1	1
1	0	1
1	1	1

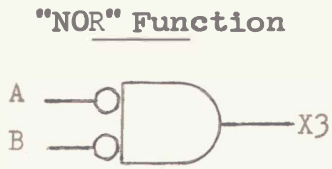


A	B	X ₂
0	0	1
0	1	1
1	0	1
1	1	0

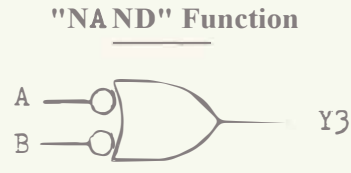


A	B	Y ₂
0	0	1
0	1	0
1	0	0
1	1	0

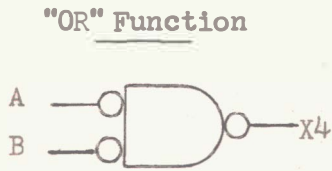
Functions



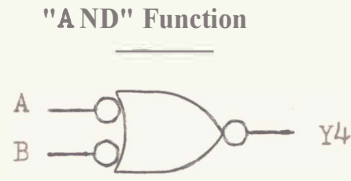
A	B	X ₃
0	0	1
0	1	0
1	0	0
1	1	0



A	B	Y ₃
0	0	1
0	1	1
1	0	1
1	1	0



A	B	X ₄
0	0	0
0	1	1
1	0	1
1	1	1



A	B	Y ₄
0	0	0
0	1	0
1	0	0
1	1	1

"NOT" Function



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1-18-73