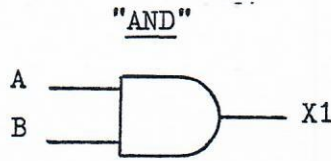
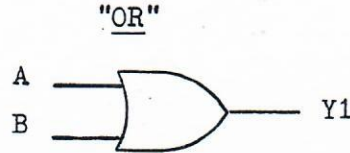


UNDERSTANDING BASIC GATING

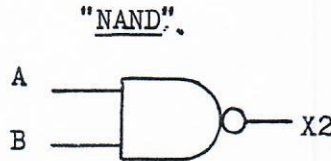
(Gates vs Functions, Functions vs Input Levels)



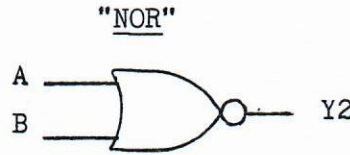
A	B	X ₁
0	0	
0	1	
1	0	
1	1	



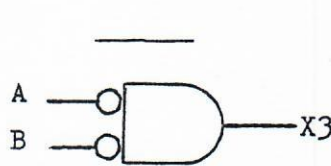
A	B	Y ₁
0	0	
0	1	
1	0	
1	1	



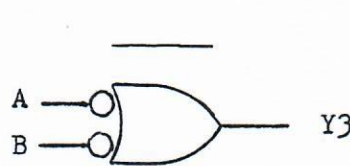
A	B	X ₂
0	0	
0	1	
1	0	
1	1	



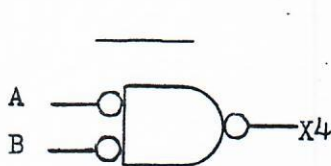
A	B	Y ₂
0	0	
0	1	
1	0	
1	1	



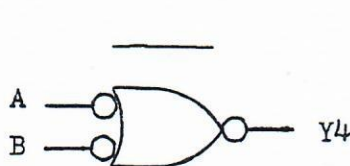
A	B	X ₃
0	0	
0	1	
1	0	
1	1	



A	B	Y ₃
0	0	
0	1	
1	0	
1	1	



A	B	X ₄
0	0	
0	1	
1	0	
1	1	



A	B	Y ₄
0	0	
0	1	
1	0	
1	1	

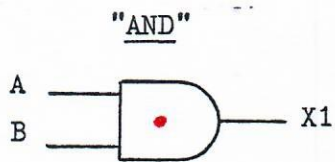
"NOT" Function



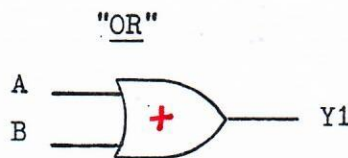
Handwritten signature
1-18-73

UNDERSTANDING BASIC GATING

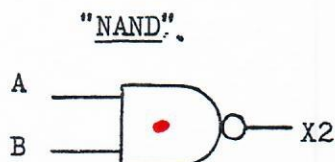
(Gates vs Functions, Functions vs Input Levels)



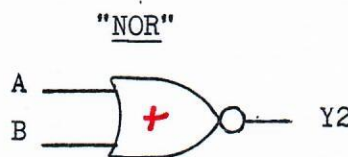
A	B	X1
0	0	0
0	1	0
1	0	0
1	1	1



A	B	Y1
0	0	0
0	1	1
1	0	1
1	1	1

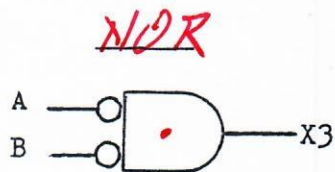


A	B	X2
0	0	1
0	1	1
1	0	0
1	1	0

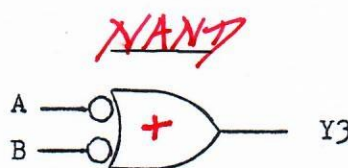


A	B	Y2
0	0	1
0	1	0
1	0	0
1	1	0

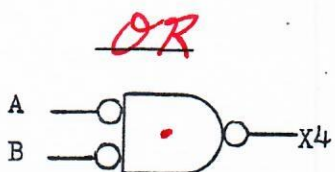
Functions



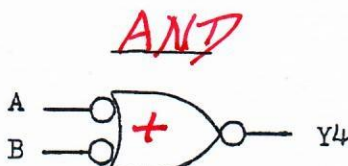
A	B	X3
0	0	1
0	1	0
1	0	0
1	1	0



A	B	Y3
0	0	1
0	1	1
1	0	0
1	1	0



A	B	X4
0	0	0
0	1	1
1	0	1
1	1	1



A	B	Y4
0	0	0
0	1	0
1	0	0
1	1	1

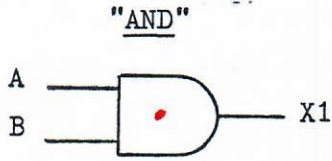
"NOT" Function



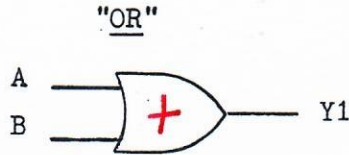
Handwritten signature
1-18-73

UNDERSTANDING BASIC GATING

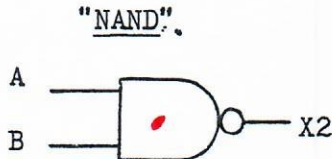
(Gates vs Functions, Functions vs Input Levels)



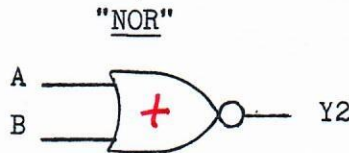
A	B	X1
0	0	0
0	1	0
1	0	0
1	1	1



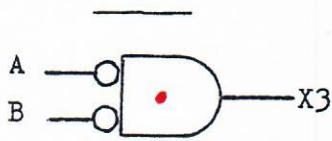
A	B	Y1
0	0	0
0	1	1
1	0	1
1	1	1



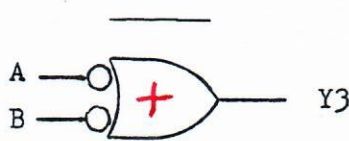
A	B	X2
0	0	1
0	1	1
1	0	1
1	1	0



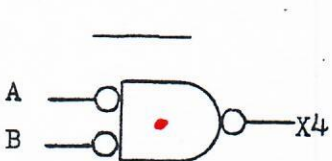
A	B	Y2
0	0	1
0	1	0
1	0	0
1	1	0



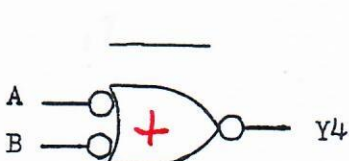
A	B	X3
0	0	1
0	1	0
1	0	0
1	1	0



A	B	Y3
0	0	1
0	1	1
1	0	1
1	1	0



A	B	X4
0	0	1
0	1	1
1	0	1
1	1	0



A	B	Y4
0	0	1
0	1	0
1	0	0
1	1	1

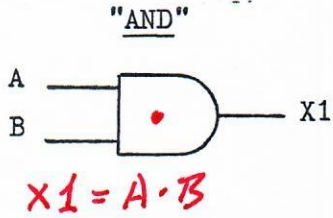
"NOT" Function



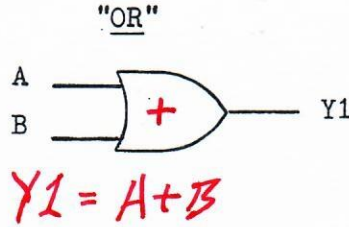
Handwritten signature
1-18-73

UNDERSTANDING BASIC GATING

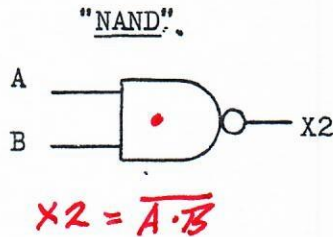
(Gates vs Functions, Functions vs Input Levels)



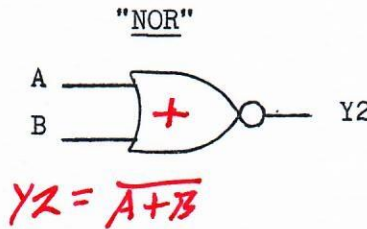
A	B	X1
0	0	
0	1	
1	0	
1	1	



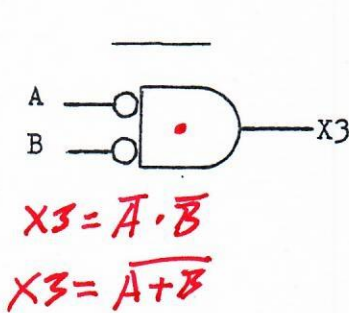
A	B	Y1
0	0	
0	1	
1	0	
1	1	



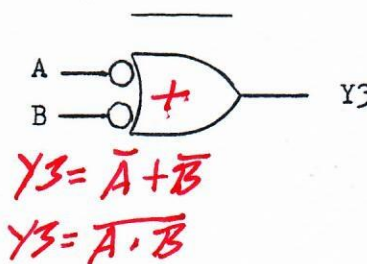
A	B	X2
0	0	
0	1	
1	0	
1	1	



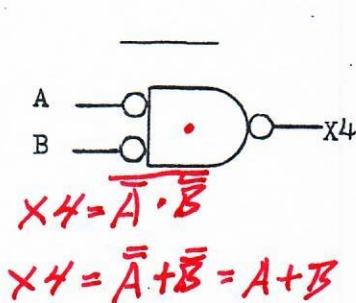
A	B	Y2
0	0	
0	1	
1	0	
1	1	



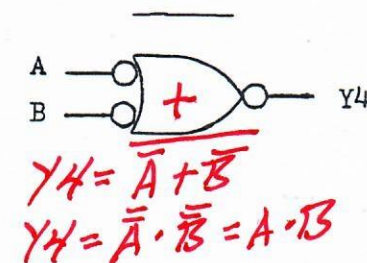
A	B	X3
0	0	
0	1	
1	0	
1	1	



A	B	Y3
0	0	
0	1	
1	0	
1	1	



A	B	X4
0	0	
0	1	
1	0	
1	1	



A	B	Y4
0	0	
0	1	
1	0	
1	1	

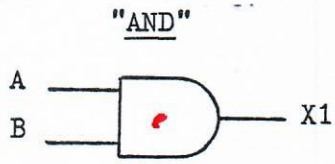
"NOT" Function



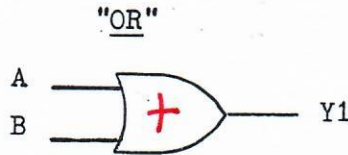
Handwritten signature
1-18-73

UNDERSTANDING BASIC GATING *Equivalent*

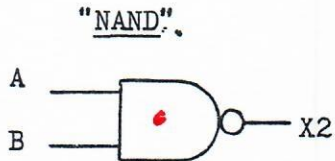
(Gates vs Functions, Functions vs Input Levels)



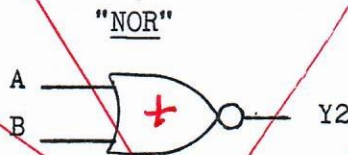
A	B	X1
0	0	0
0	1	0
1	0	0
1	1	1



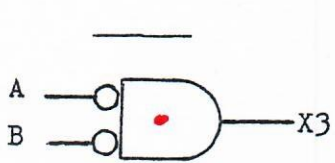
A	B	Y1
0	0	0
0	1	1
1	0	1
1	1	1



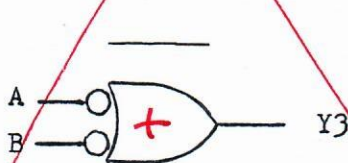
A	B	X2
0	0	1
0	1	1
1	0	1
1	1	0



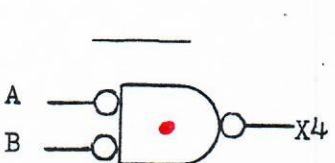
A	B	Y2
0	0	1
0	1	0
1	0	0
1	1	0



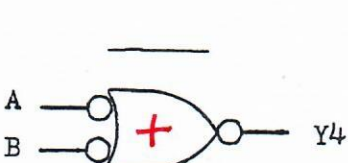
A	B	X3
0	0	0
0	1	0
1	0	0
1	1	1



A	B	Y3
0	0	0
0	1	1
1	0	1
1	1	1



A	B	X4
0	0	1
0	1	1
1	0	1
1	1	0



A	B	Y4
0	0	1
0	1	0
1	0	0
1	1	0

"NOT" Function



Handwritten signature
1-18-73