# WELCOME TO EC LAB



7400 NAND Gate



7408 AND Gate



7404 NOT Gate



7432 OR Gate



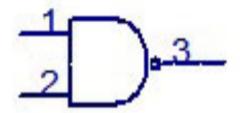
7486 XOR Gate

### 2 Input NAND Gate

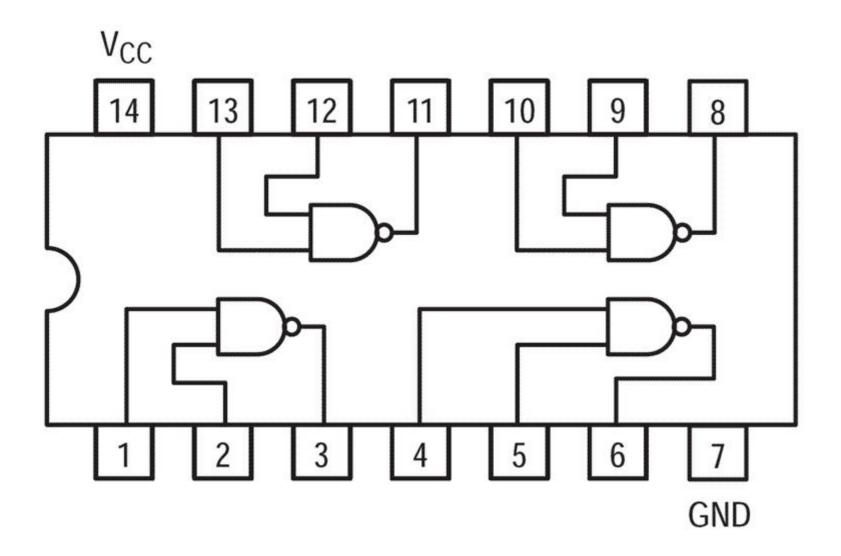
#### TRUTH TABLE

INF	PUTS	OUTPUT	
X	Y	Z	
0	0	1	
0	1	1	
1	0	1	
1	1	0	

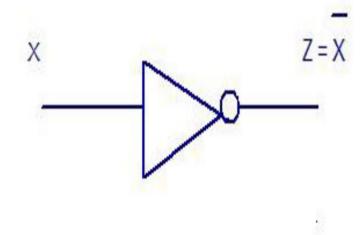
NAND Gate



# **7400 (NAND GATE)**



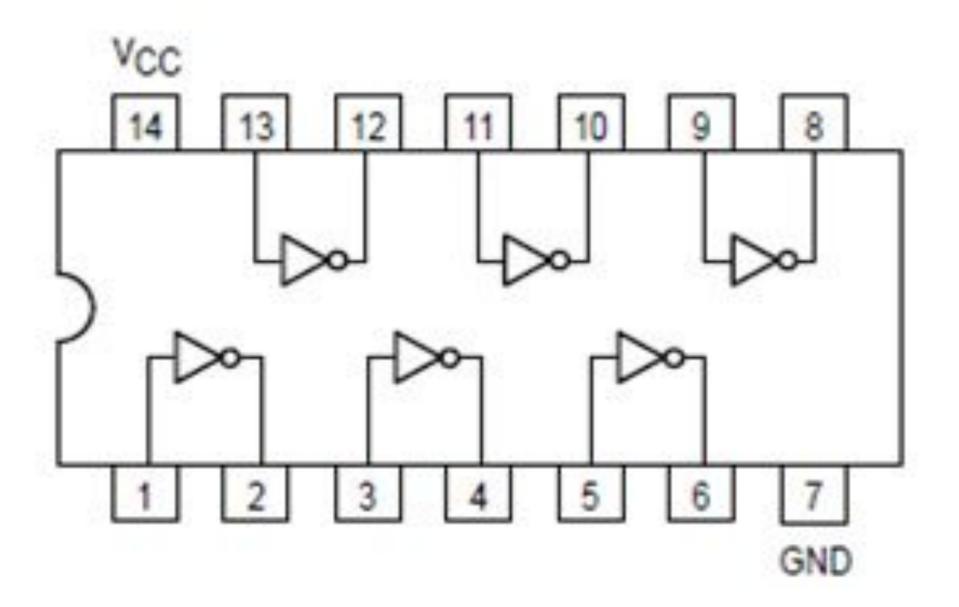
#### **NOT Gate**



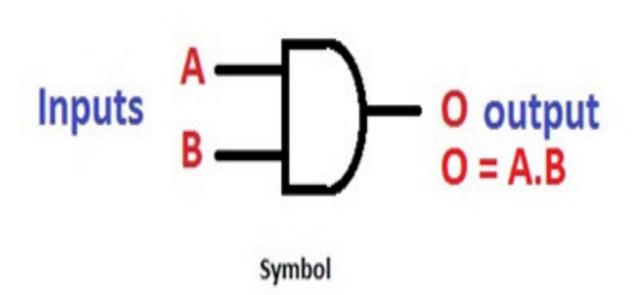
#### TRUTH TABLE

INPUT	OUTPUT
X	Z
0	1
1	0

# (7404) NOT GATE



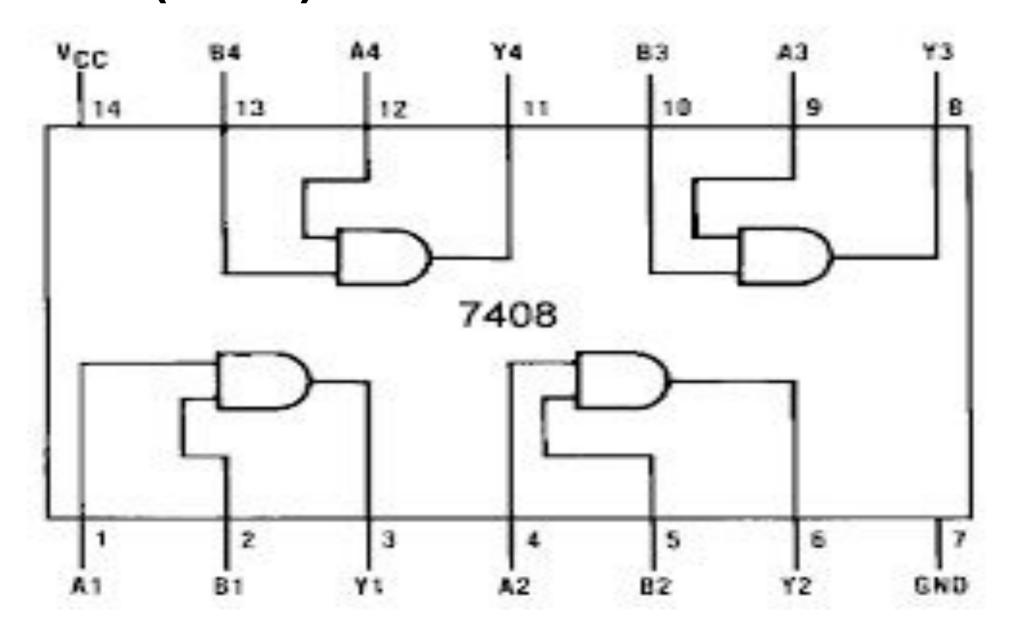
# 2 Input AND Gate



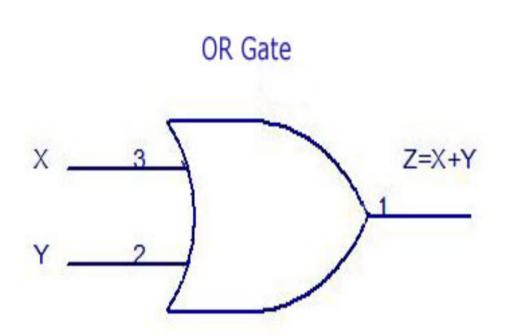
Inpu	its	Output
A	В	0
0	0	0
0	1	0
1	0	0
1	1	1

Truth table

# (7408) 2 INPUT AND GATE



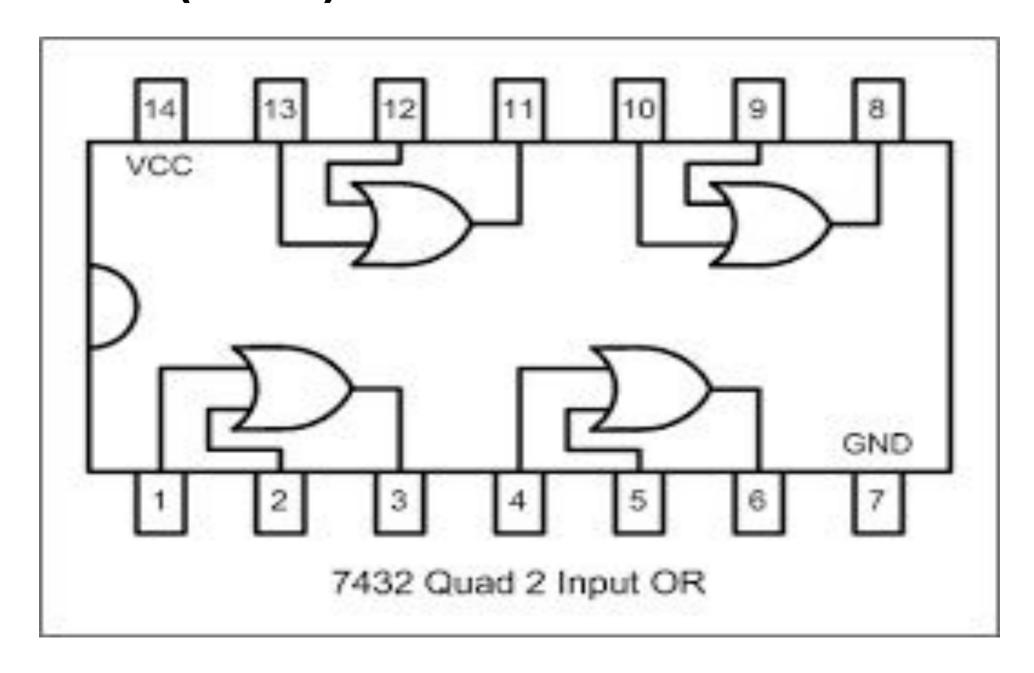
#### 2 Input OR Gate



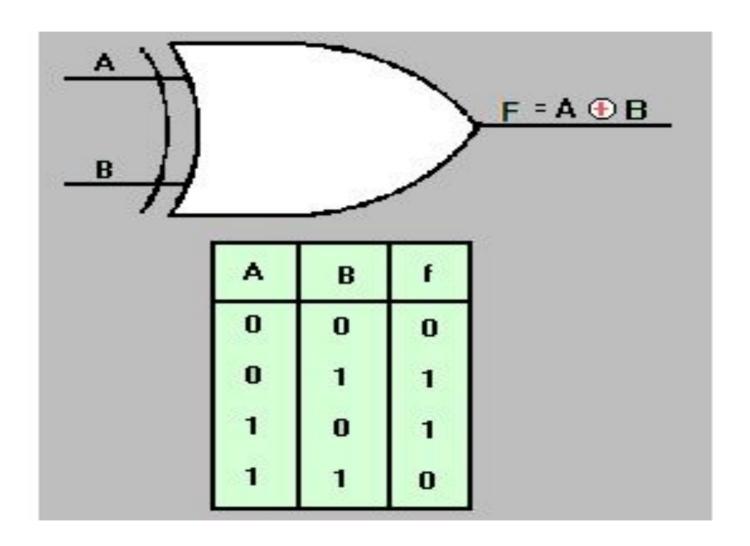
#### TRUTH TABLE

INF	PUTS	OUTPUT
Х	Υ	Z
0	0	0
0	1	1
1	0	1
1	1	1

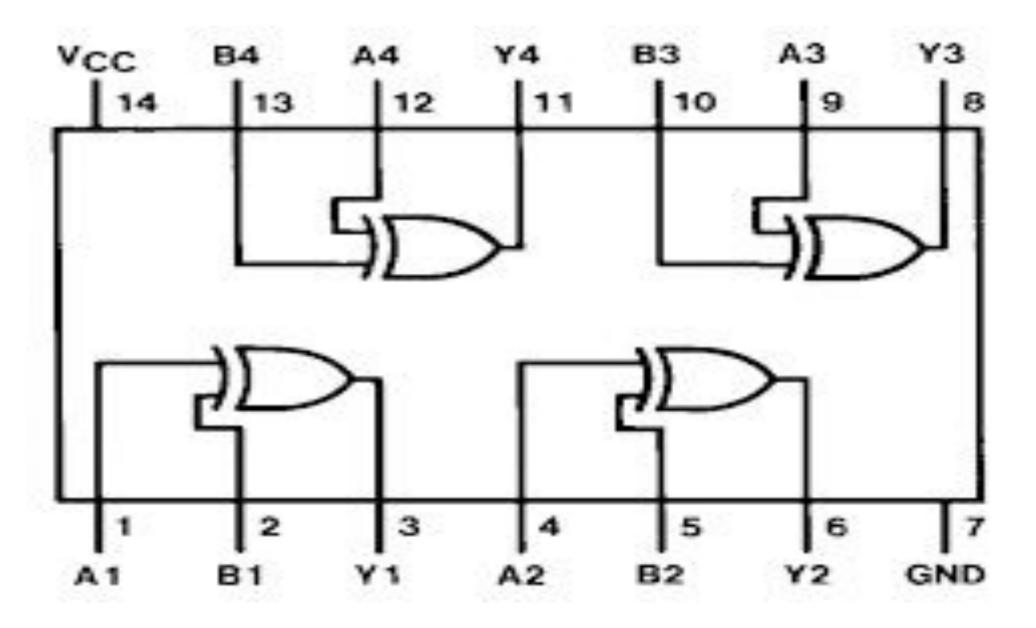
### (7432) 2 INPUT OR GATE



# 2 Input XOR Gate



# (7486) 2 INPUT XOR GATE



# Basic 74-series code

AA 74XXX000 ZZ

# MANUFACTURERS PREFIX e.g.,

CD = RCA

DM = National Semiconductor

MC = Motorola

MM = National Semiconductor

N = Signetics

PC = Signetics

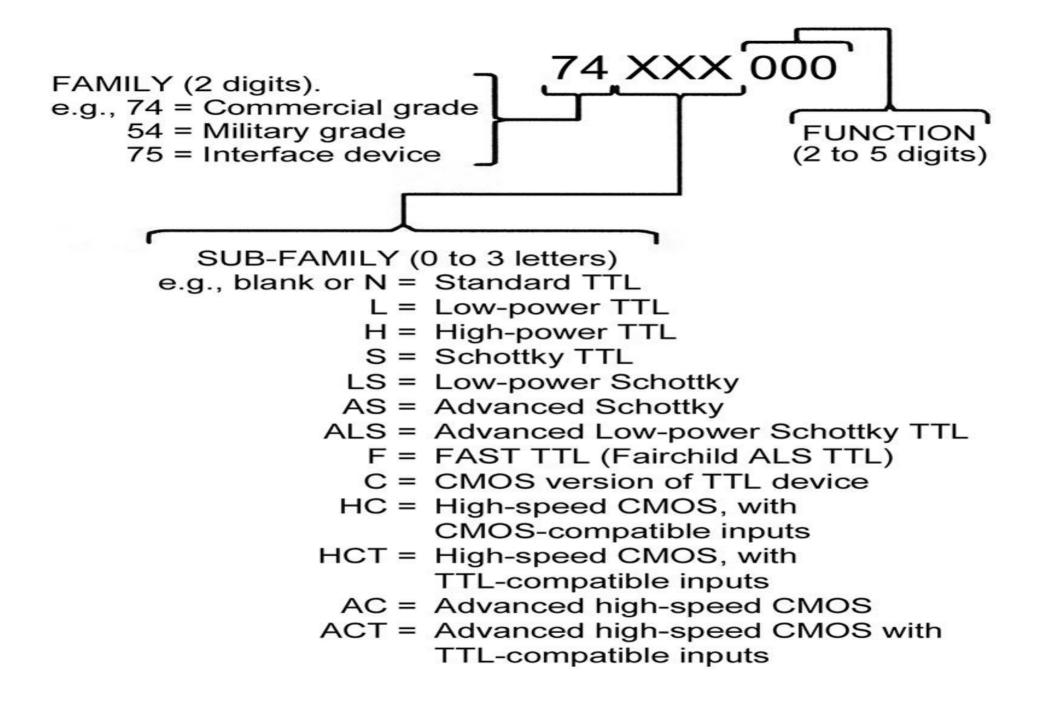
SN = Texas Instruments

# MANUFACTURERS SUFFIX e.g.,

N = Plastic dual-in-line package

P = Eight-pin plastic D.I.L. package

J = Ceramic package



# Thank you