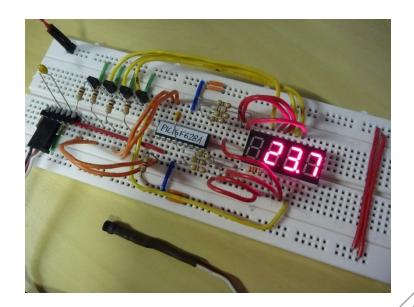
# **CIRCUITOS DIGITALES**

Tarea #991



Materia: Organización y diseño de computadoras.

Docente: Ismael Jiménez Sánchez

Parcial: 2

Universidad del Caribe Alumno: Sergio Alexander Sanchez Garcia

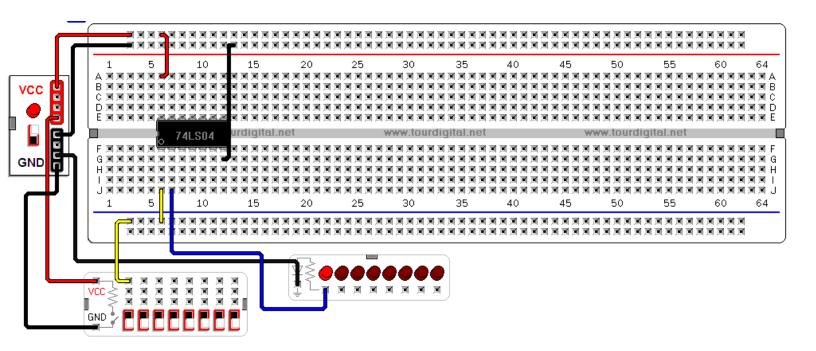
## **NOT**

7404

#### Tabla de verdad

Р	¬P
0	1
1	0





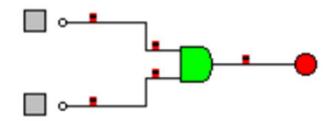
## **AND**

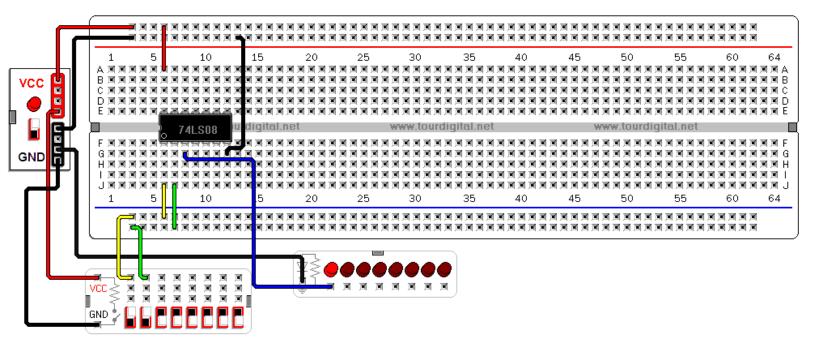
#### 2 entradas 7408

## Tablas de verdad

Р	Q	P^Q
0	0	0
0	1	0
1	0	0
1	1	1

## **Diagrama**





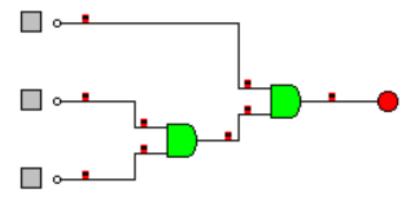
# **AND**

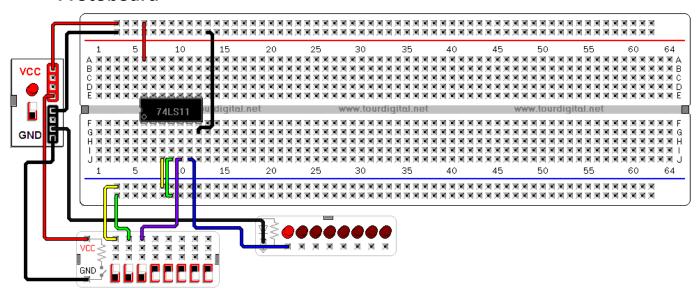
#### 3 entradas 7411

#### Tablas de verdad

Р	Q	R	P^Q	(P^Q)^R
0	0	0	0	0
0	0	1	0	0
0	1	0	0	0
0	1	1	0	0
1	0	0	0	0
1	0	1	0	0
1	1	0	1	0
1	1	1	1	1

## Diagrama





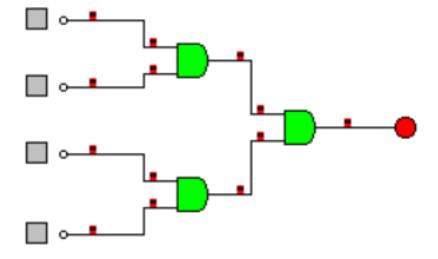
# **AND**

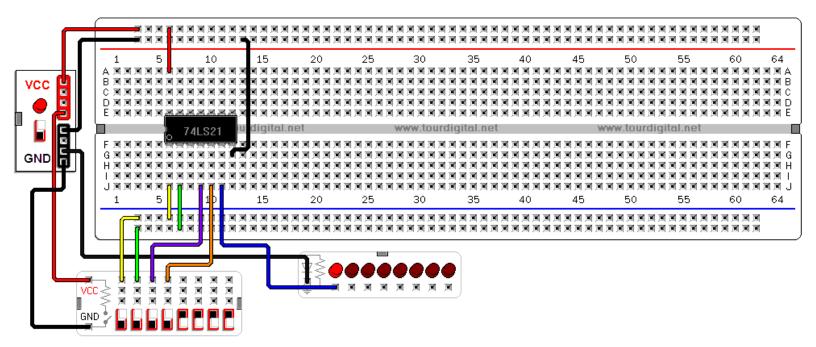
# 4 entradas 7421

# Tablas de verdad

Р	Q	R	S	P^Q	R^S	(P^Q)^(R^S)
0	0	0	0	0	0	0
0	0	0	1	0	0	0
0	0	1	0	0	0	0
0	0	1	1	0	1	0
0	1	0	0	0	0	0
0	1	0	1	0	0	0
0	1	1	0	0	0	0
0	1	1	1	0	1	0
1	0	0	0	0	0	0
1	0	0	1	0	0	0
1	0	1	0	0	0	0
1	0	1	1	0	1	0
1	1	0	0	1	0	0
1	1	0	1	1	0	0
1	1	1	0	1	0	0
1	1	1	1	1	1	1

# Diagrama



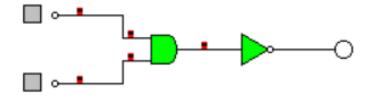


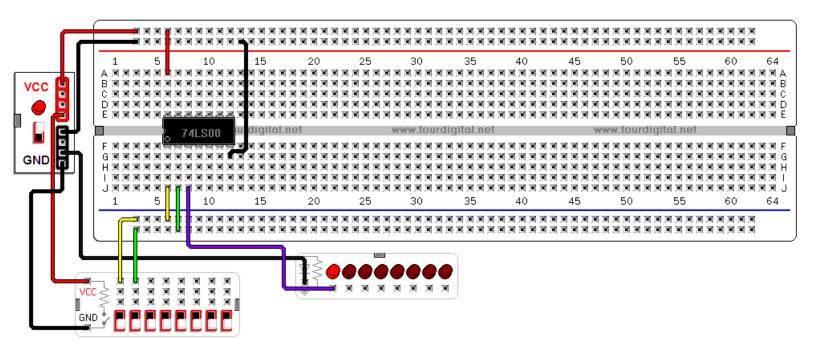
#### 2 entradas 7400

### Tablas de verdad

Р	Q	P^Q	¬( P^Q)
0	0	1	1
0	1	0	1
1	0	0	1
1	1	0	0

## Diagrama



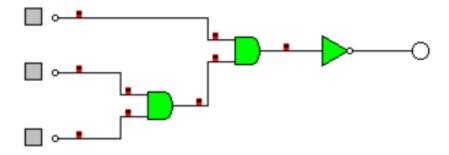


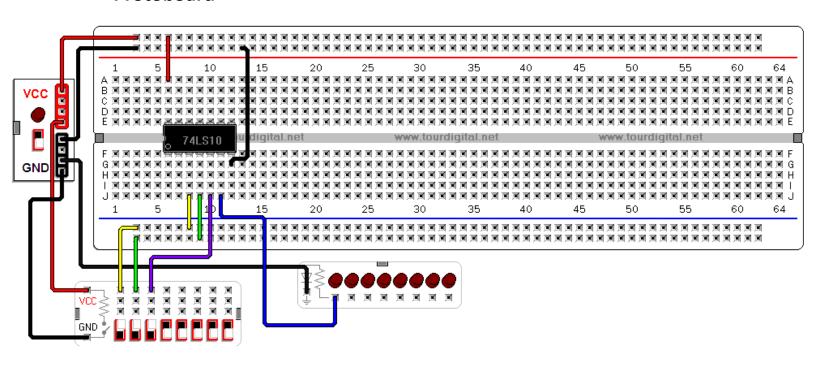
#### 3 entradas 7410

### Tablas de verdad

Р	Q	R	(P^Q)	(P^Q)^R	¬(P^Q)^R
0	0	0	0	0	1
0	0	1	0	0	1
0	1	0	0	0	1
0	1	1	0	0	1
1	0	0	0	0	1
1	0	1	0	0	1
1	1	0	1	0	1
1	1	1	1	1	0

## Diagrama



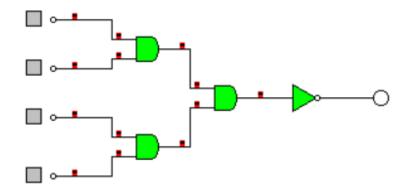


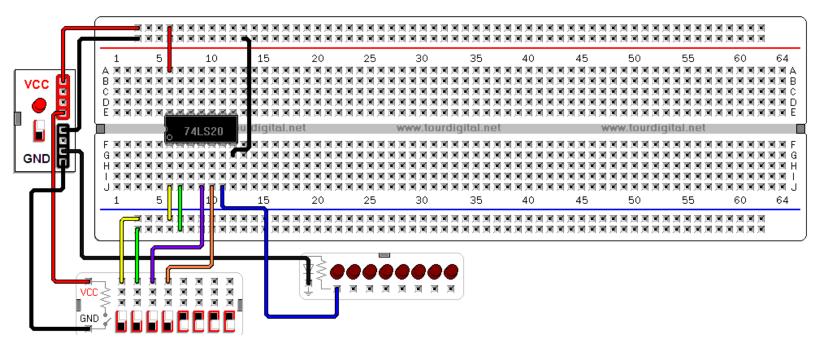
# 4 entradas 7420

# Tablas de verdad

Р	Q	R	S	P^Q	R^S	(P^Q)^(R^S)	¬(P^Q)^(R^S)
0	0	0	0	0	0	0	1
0	0	0	1	0	0	0	1
0	0	1	0	0	0	0	1
0	0	1	1	0	1	0	1
0	1	0	0	0	0	0	1
0	1	0	1	0	0	0	1
0	1	1	0	0	0	0	1
0	1	1	1	0	1	0	1
1	0	0	0	0	0	0	1
1	0	0	1	0	0	0	1
1	0	1	0	0	0	0	1
1	0	1	1	0	1	0	1
1	1	0	0	1	0	0	1
1	1	0	1	1	0	0	1
1	1	1	0	1	0	0	1
1	1	1	1	1	1	1	0

# Diagrama





#### 8 entradas 7430

## Tablas de verdad

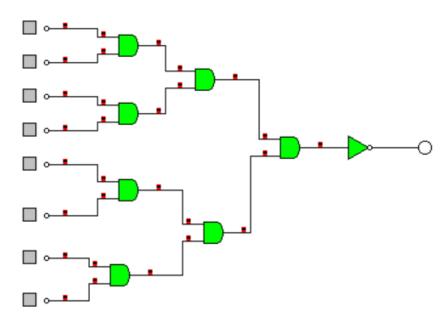
Todas 0

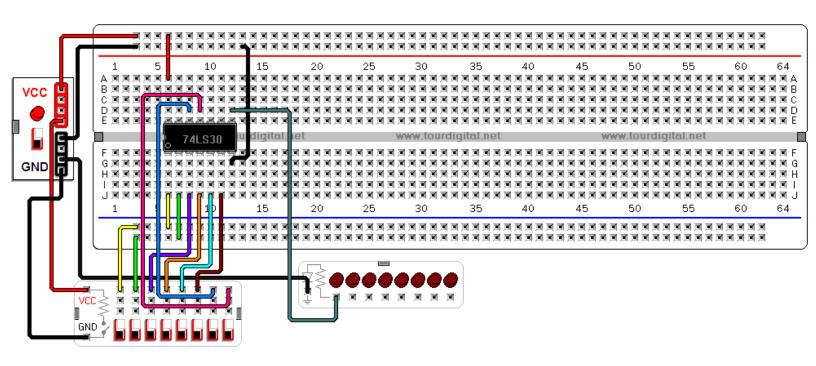
Todas 1

# Entradas jentradas

0

## Diagrama



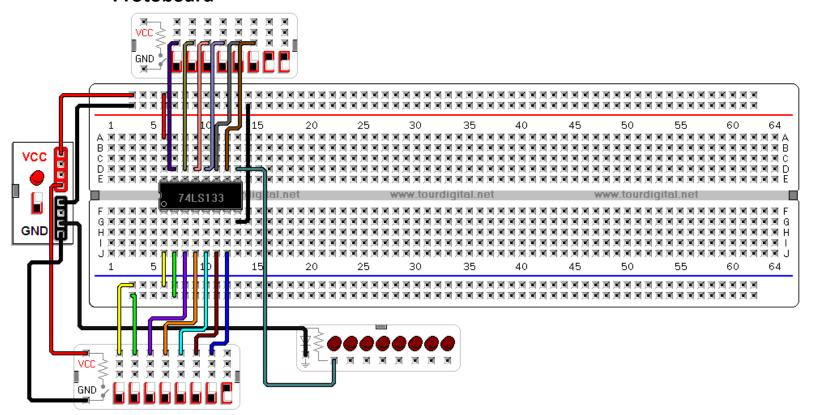


#### 13 entradas 74133

## Tablas de verdad

## Diagrama

		•
Entradas	jentradas	
Todas 0	1	
Todas 1	0	
		■ • • • • • • • • • • • • • • • • • • •



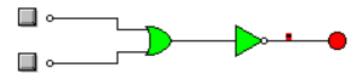
## **NOR**

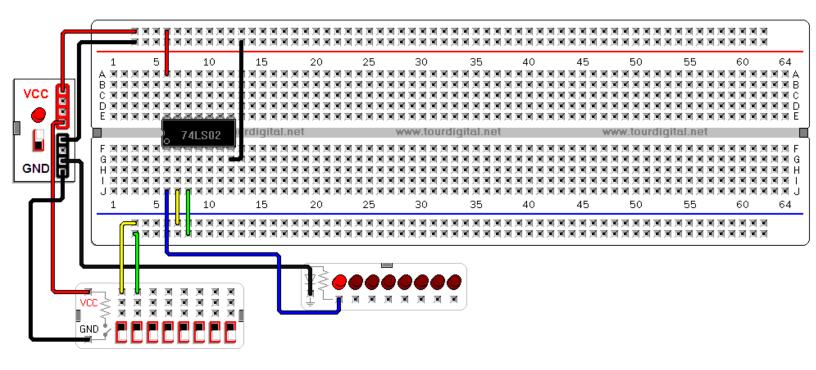
#### 2 entradas 7402

## Tablas de verdad

Р	Q	P^Q	¬(P^Q)
0	0	0	1
0	1	1	0
1	0	1	0
1	1	1	0

## Diagrama





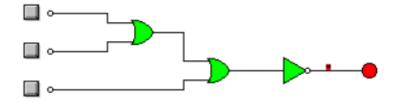
## **NOR**

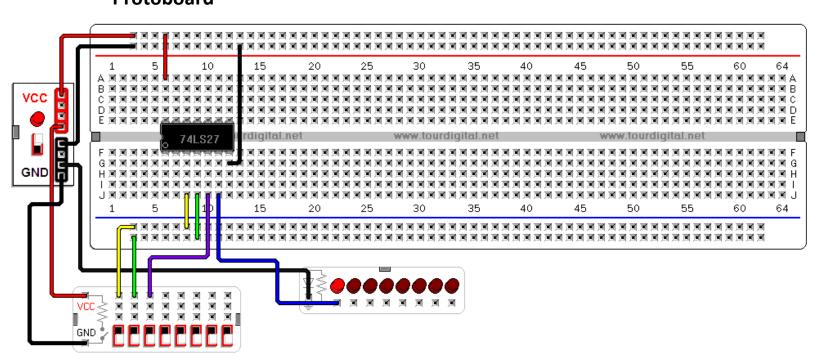
#### 3 entradas 7427

### Tablas de verdad

Р	Q	R	P^Q	(P^Q)^R	!((P^Q)^R)
0	0	0	0	0	1
0	0	1	0	1	0
0	1	0	1	1	0
0	1	1	1	1	0
1	0	0	1	1	0
1	0	1	1	1	0
1	1	0	1	1	0
1	1	1	1	1	0

## Diagrama





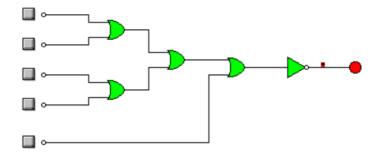
# **NOR**

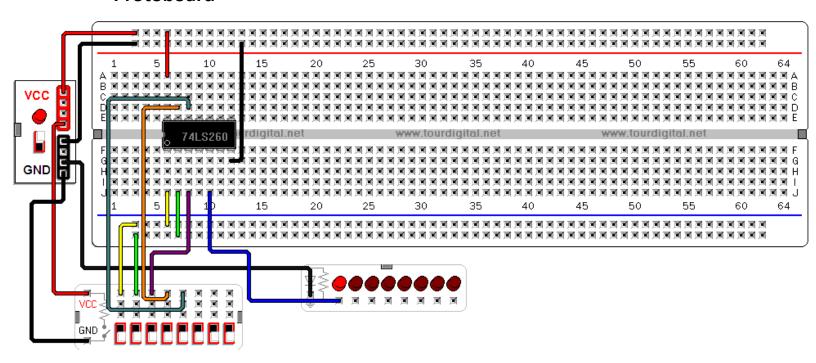
#### 3 entradas 7427

## Tablas de verdad

Entrada	Salida
Liitiaua	Janua
Todos 0	1
No todos son 0	0

## Diagrama





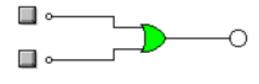
## OR

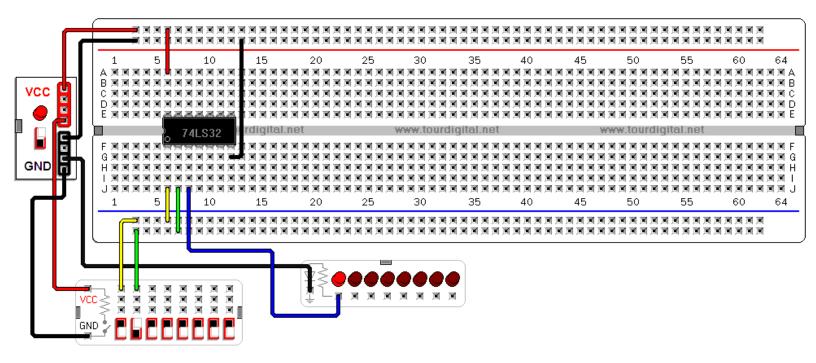
#### 2 entradas 7432

## Tablas de verdad

Р	Q	P^Q
0	0	0
0	1	1
1	0	1
1	1	1

## Diagrama





# **XOR**

#### 2 entradas 7427

## Tablas de verdad

Р	Q	P != Q
0	0	0
0	1	1
1	0	1
1	1	0

## Diagrama

