Truth tables

Worksheet 1



Complete the following sentence.

Logic gates are switches which perform a logical function on one or more logical ______ and produce a single logical _____.

In the spaces below draw the symbols used to represent the following logic gates.

AND	OR	NOT

3 Complete the following sentence.

A truth table is a breakdown of a logic function by listing all possible _____ the function can attain.

Complete the truth tables for the following gates.

(a)

Symbol	Truth table		
	A	В	Q
^_			
Q			
B			





Complete the truth tables for the following gates.

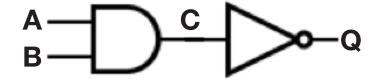


Symbol	Truth table		
	A	В	Q
$A \longrightarrow Q$			

(c)

Symbol	Truth table	
Δ	A	В
; — > → Q		
В		





Α	В	С	D

1	(c)	Giva	the	logic	etateme	nt for	thic	combinatio	n
1	(a)	Give	tne	logic	stateme	ent for	tnis	combinatio	n.







Give the logic gate drawing and the truth table for the following logic statement.

Q = NOT (A OR B)

Α	В	С	D