

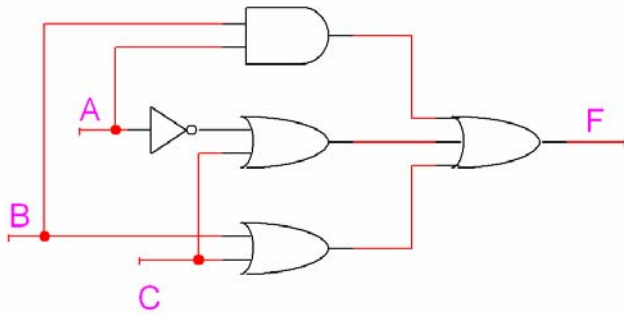
Name \_\_\_\_\_ CM \_\_\_\_\_

Due date: Monday Sept. 8

ECE130-01 Homework #2 (logic gate & truth table)

Fall 2003

1. Fill in the truth table and find the logic expression for the circuit below.



A	B	C	F
0	0	0	
0	0	1	
0	1	0	
0	1	1	
1	0	0	
1	0	1	
1	1	0	
1	1	1	

2. Complete the truth table and draw a logic circuit with AND, OR, and inverter gates for the following function:  $F(A, B, C) = \bar{A} * B * \bar{C} + A * \bar{B}$ .

A	B	C	F
0	0	0	
0	0	1	
0	1	0	
0	1	1	
1	0	0	
1	0	1	
1	1	0	
1	1	1	