

HOMEWORK 03  
CSCI 160  
SPRING 2025

Name:								
EMPLID:								

For each question below, write your answer in the appropriate box. That is where Gradescope will look. You can use the rest of the space for calculations.

Consider the Boolean function  $F_1(a, b, c) = (c + b)(a' + c)$

1. Complete the truth table for  $F_1$

$a$	$b$	$c$	$F_1(a, b, c)$
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. Write  $F_1$  as a Sum of Minterms (the terms, not the designations like  $m_0$ ):

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3. Write  $F_1$  as a Product of Maxterms (the terms, not the designations like  $M_0$ ):

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4. Write  $F_1$  in  $\Sigma$ -notation:

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5. Write  $F_1$  in  $\Pi$ -notation:

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