

# CHAPTER 2

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2-1.\*

a)  $\overline{XYZ} = \overline{X} + \overline{Y} + \overline{Z}$

Verification of DeMorgan's Theorem

X	Y	Z	XYZ	$\overline{XYZ}$	$\overline{X} + \overline{Y} + \overline{Z}$
0	0	0	0	1	1
0	0	1	0	1	1
0	1	0	0	1	1
0	1	1	0	1	1
1	0	0	0	1	1
1	0	1	0	1	1
1	1	0	0	1	1
1	1	1	1	0	0

b)  $\overline{X + YZ} = (\overline{X + Y})(\overline{X + Z})$

The Second Distributive Law

X	Y	Z	YZ	$\overline{X + YZ}$	$\overline{X + Y}$	$\overline{X + Z}$	$(\overline{X + Y})(\overline{X + Z})$
0	0	0	0	0	0	0	0
0	0	1	0	0	0	1	0
0	1	0	0	0	1	0	0
0	1	1	1	1	1	1	1
1	0	0	0	1	1	1	1
1	0	1	0	1	1	1	1
1	1	0	0	1	1	1	1
1	1	1	1	1	1	1	1

c)  $\overline{XY} + \overline{YZ} + \overline{XZ} = \overline{XY + YZ + XZ}$

X	Y	Z	$\overline{XY}$	$\overline{YZ}$	$\overline{XZ}$	$\overline{XY+YZ+XZ}$	$\overline{XY}$	$\overline{YZ}$	$\overline{XZ}$	$\overline{XY+YZ+XZ}$
0	0	0	0	0	0	0	0	0	0	0
0	0	1	0	1	0	1	0	0	1	1
0	1	0	1	0	0	1	0	1	0	1
0	1	1	1	0	0	1	0	0	1	1
1	0	0	0	1	1	1	1	0	0	1
1	0	1	0	1	0	1	1	0	0	1
1	1	0	0	0	1	1	0	1	0	1
1	1	1	0	0	0	0	0	0	0	0

2-2.\*

a)  $\overline{X}\overline{Y} + \overline{X}Y + X\overline{Y} = \overline{X} + Y$   
 $= (\overline{X}\overline{Y} + \overline{X}Y) + (\overline{X}Y + X\overline{Y})$   
 $= \overline{X}(\overline{Y} + Y) + Y(\overline{X} + X)$   
 $= \overline{X} + Y$

b)  $\overline{A}B + \overline{B}\overline{C} + AB + \overline{B}C = 1$   
 $= (\overline{A}B + AB) + (\overline{B}\overline{C} + \overline{B}C)$   
 $= B(A + \overline{A}) + \overline{B}(C + \overline{C})$

# Logic Computer Design Fundamentals 4th Solution Manual

**Wolfgang Guggemos**



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