

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

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

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