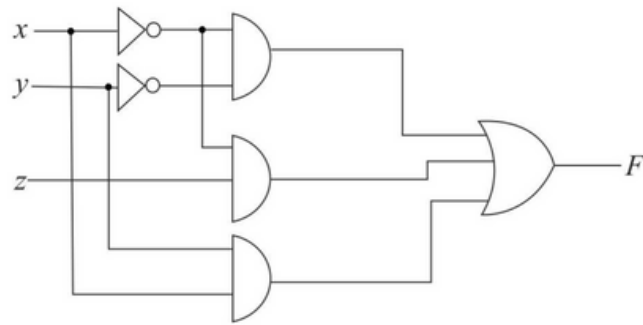
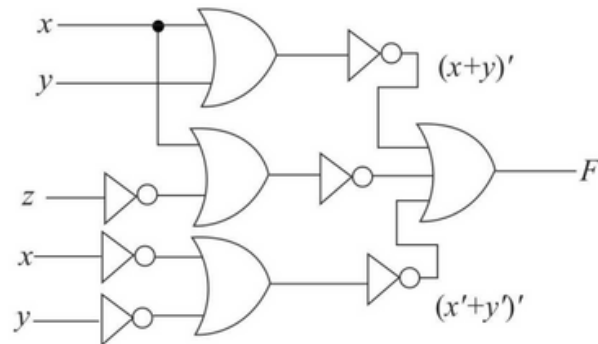


2.14 (a) $F = x'y' + x'z + xy$



(b) $F = x'y' + x'z + xy = (x + y)' + (x + z)' + (x' + y')'$



2.20 (a) $F(A, B, C, D) = \Sigma(0, 3, 5, 7, 9, 11, 13)$
 $F'(A, B, C, D) = \Sigma(1, 2, 4, 6, 8, 10, 12, 14, 15)$

(b) $F(x, y, z) = \pi(2, 4, 6, 7)$
 $F'(x, y, z) = \Sigma(2, 4, 6, 7)$

3.3

(a) $F(x, y, z) = xyz + x'y + xyz'$
 $= xyz + x'yz + x'yz' + xyz'$
 $= \Sigma(2, 3, 6, 7)$

x \ y ²				
	00	01	11	10
0	0	0	1	1
1	0	0	1	1

$F = y$

(b) $F(x, y, z) = x'yz + xyz' + xyz + x'yz' + xy'z'$
 $= \Sigma(2, 3, 4, 6, 7)$

x \ y ²				
	00	01	11	10
0	0	0	1	1
1	1	0	1	1

$F = y + xz'$

3.5

(a) $F(w, x, y, z) = \Sigma(0, 4, 6, 8, 14, 15)$

wx \ yz				
	00	01	11	10
00	1	0	0	0
01	1	0	0	1
11	0	0	1	1
10	1	0	0	0

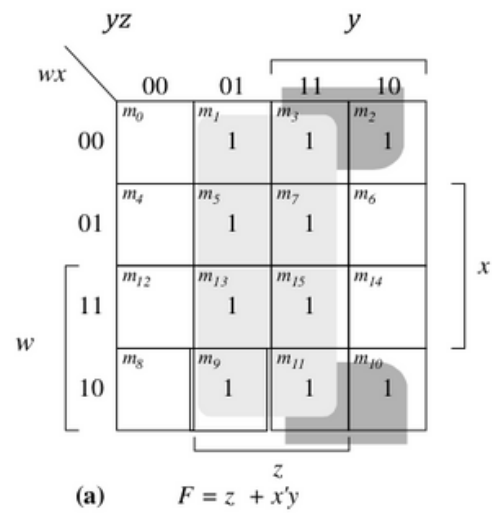
$F = w'xz' + x'y'z' + wxy$

(b) $F = A'C + ABC' + ABD'$ or $A'C + ABC' + BCD'$

AB \ CD		C			
		00	01	11	10
A	00	m_0	m_1	m_3 1	m_2 1
	01	m_4	m_5	m_7 1	m_6 1
	11	m_{12} 1	m_{13} 1	m_{15}	m_{14} 1
	10	m_8	m_9	m_{11}	m_{10}

m14 也可以向上方連
有多組解

3.7



(b) $ACD' + B'C'D + BCD + BC'$
 $= \Sigma(1, 4, 5, 7, 9, 10, 12, 13, 14, 15)$

