3.

$$F(x,y,z) = (x+y+z) \cdot (x+y+z') \cdot (x+y'+z) \cdot (x'+y+z)$$
$$\cdot (x'+y+z)$$

	0 0	0 0	0 1	1 1	1 1	0

x 0, 1

$$F(x,y,z) = (x+y) \cdot (y+z) \cdot (y'+z')$$

4. $F(x,y,z) = x' \cdot y' \cdot z' + x' + y' \cdot z + x' \cdot y \cdot z' + x \cdot y' \cdot z' + x \cdot y \cdot z' +$
$$x \cdot y \cdot z$$

	00	01	11	19

x 0, 1

$$F(x,y,z) = (x+y'+z') \cdot (x'+y+z')$$

5. $F(x,y,z)$

z	00	01	11	10
0	m_0	m_2	m_6	m_4
1	m_1	m_3	m_7	m_5

6. $F(x,y,z)$

y	00	01	11	10
0	m_0	m_1	m_5	m_4
1	m_2	m_3	m_7	m_6

7. $F(w,x,y,z)$

yz

wx	00	01	11	10
00	m_0	m_1	1	1
01	m_4	1	1	m_6
11	X	X	X	X
10	m_8	m_9	X	X

$$F(w,x,y,z) = x \cdot z + x' \cdot y$$