

$$2. f(x, y, z) = \sum m(6, 7, 3) + d(4)$$

|   | x | y | z |   |
|---|---|---|---|---|
| 0 | 0 | 0 | 0 |   |
| 1 | 0 | 0 | 1 |   |
| 2 | 0 | 1 | 0 |   |
| 3 | 0 | 1 | 1 | 1 |
| 4 | 1 | 0 | 0 | X |
| 5 | 1 | 0 | 1 |   |
| 6 | 1 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 |

$$g(0) = f_0 = 0$$

$$g(1) = f_0^0 \wedge f_1^0 = 0$$

$$g(2) = f_2^0 \wedge f_0^0 = 0$$

$$g(3) = f_3^1 \wedge f_2^0 \wedge \neg f_0^0 = 1$$

$$g(4) = f_4^x \wedge f_0^0 = 0$$

$$g(5) = f_5^0 \wedge f_4^x \wedge f_1^0 \wedge f_0^0 = 0$$

$$g(6) = f_6^1 \wedge f_4^x \wedge f_2^0 \wedge f_0^0 = 0$$

$$g(7) = f_7^1 \wedge f_6^1 \wedge f_5^0 \wedge f_4^x \wedge f_3^1 \wedge f_2^1 \wedge f_1^1 \wedge f_0^0 = 0$$

$$f = yz$$