

$$y = x_1 + \overline{x_2}$$

x_1	x_2	$\overline{x_2}$	$x_1 + \overline{x_2}$
0	0	1	1
0	1	0	0
1	0	1	1
1	1	0	1

↑
↑

$$y = x_1 \overline{x_2} + x_2 \overline{x_3}$$

x_1	x_2	x_3	$\overline{x_2}$	$\overline{x_3}$	$x_1 \overline{x_2}$	$x_2 \overline{x_3}$	$x_1 \overline{x_2} + x_2 \overline{x_3}$
0	0	0	1	1	0	0	0
0	0	1	1	0	0	0	0
0	1	0	0	1	0	1	1
0	1	1	0	0	0	0	0
1	0	0	1	1	1	0	1
1	0	1	1	0	1	0	1
1	1	0	0	1	0	1	1
1	1	1	0	0	0	0	0

$$y = x_1 + \overline{x_2 x_3}$$

x_1	x_2	x_3	$x_2 x_3$	$\overline{x_2 x_3}$	$x_1 + \overline{x_2 x_3}$
0	0	0	0	1	1
0	0	1	0	1	1
0	1	0	0	1	1
0	1	1	1	0	0
1	0	0	0	1	1
1	0	1	0	1	1
1	1	0	0	1	1
1	1	1	1	0	1

0

$$y = x_1 + x_1 x_2 = x_1$$

x_1	x_2	$x_1 x_2$	$x_1 + x_1 x_2$
0	0	0	0
0	1	0	0
1	0	0	1
1	1	1	1

$$y = \bar{x}_1 \bar{x}_2 + x_1 x_2$$

x_1	x_2	$\bar{x}_1$	$\bar{x}_2$	$\bar{x}_1 \bar{x}_2$	$x_1 x_2$	$\bar{x}_1 \bar{x}_2 + x_1 x_2$
0	0	1	1	1	0	1
0	1	1	0	0	0	0
1	0	0	1	0	0	0
1	1	0	0	0	1	1

x_1	x_2	y
0	0	0
0	1	1
1	0	1
1	1	0

$$y = \bar{x}_1 x_2 + x_1 \bar{x}_2$$

x_1	x_2	x_3	y
0	0	0	0
0	0	1	0
0	1	0	1
0	1	1	0
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

$$\begin{aligned}
 y &= \bar{x}_1 \bar{x}_2 x_3 + \\
 &+ x_1 x_2 x_3 + \\
 &+ x_1 \bar{x}_2 \bar{x}_3 = \\
 &= x_2 \bar{x}_3 (\bar{x}_1 + x_1) + \\
 &+ x_1 \bar{x}_2 x_3 = \\
 &= \underline{x_2 \bar{x}_3} 1 + x_1 \bar{x}_2 x_3 = \\
 &= x_2 \bar{x}_3 + x_1 \bar{x}_2 x_3
 \end{aligned}$$

x_1	x_2	x_3	y
0	0	0	0
0	0	1	0
0	1	0	1
0	1	1	0
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

	x_1, x_2			
	00	01	11	10
0	0	1	1	0
1	0	0	0	1

$$y = \bar{x}_1 \bar{x}_2 x_3 + x_2 \bar{x}_3$$

— 0 —

x_1	x_2	x_3	y
0	0	0	1
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	1
1	1	1	1

	x_2, x_3			
	00	01	11	10
0	1	1	0	0
1	1	0	1	1

$$y = \bar{x}_1 \bar{x}_2 + x_1 x_2 + x_1 \bar{x}_3$$

x_1	x_2	y
0	0	1
0	1	0
1	0	1
1	1	1

	x_2	
	0	1
x_1	0	1
	1	1

$$y = x_1 + \bar{x}_2$$

x_1	x_2	x_3	y
0	0	0	1
0	0	1	1
0	1	0	0
0	1	1	0
1	0	X	1
1	1	0	0
1	1	1	0

$$\begin{array}{l} 200 \mid 1 \\ 101 \mid 1 \end{array}$$

	x_2, x_3			
	00	01	11	10
x_1	0	1	0	0
	1	1	0	0

$$y = \bar{x}_2$$