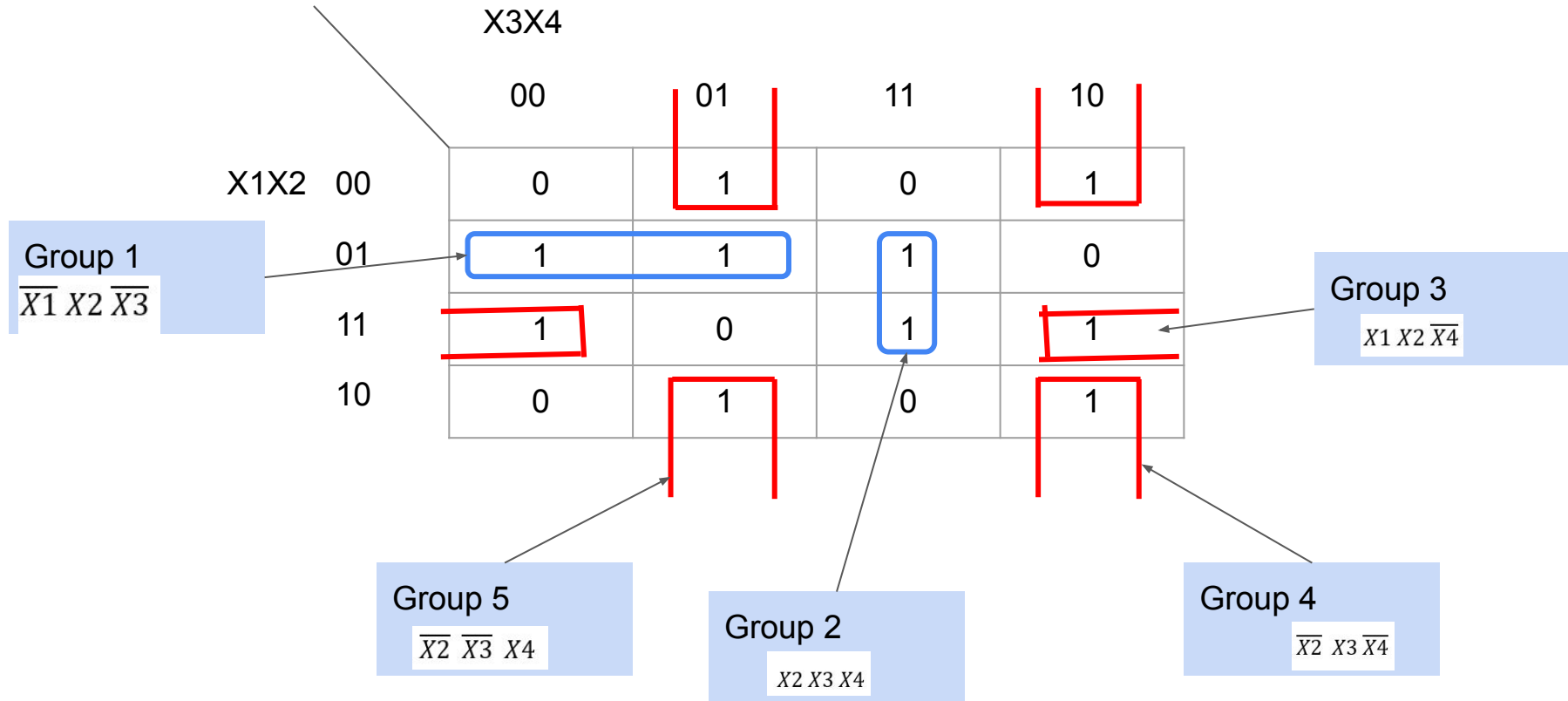Z1 using Karnaugh maps from the truth table is given below

$Z1 = \overline{X1}X2\overline{X3} + X2X3X4 + X1X2\overline{X4} + \overline{X2}X3\overline{X4} + \overline{X2}\,\overline{X3}\,X4$

We can get such grouping from the primary observation

X3X4

		00	01	11	10
X1X2	00	0	1	0	1
	01	1	1	1	0
	11	1	0	1	1
	10	0	1	0	1

Group 1
$\overline{X1}\,X2\,\overline{X3}$

Group 3
$X1\,X2\,\overline{X4}$

Group 5
$\overline{X2}\,\overline{X3}\,X4$

Group 2
$X2\,X3\,X4$

Group 4
$\overline{X2}\,X3\,\overline{X4}$

Z2 using Karnaugh maps from the truth table is given below

$$Z2 = \overline{X3}\,\overline{X4} + X2\,\overline{X4} + X1\overline{X4} + \overline{X1}\,X2\,\overline{X3} + \overline{X1}\,\overline{X2}\,X3X4$$

We can get such grouping from the primary observation

X3X4

Group 5 $\overline{X1}\,\overline{X2}\,X3X4$

Group 4 $\overline{X1}\,X2\,\overline{X3}$

		00	01	11	10
X1X2	00	1	0	1	0
	01	1	1	0	1
	11	1	0	0	1
	10	1	0	0	1

Group 2 $X2\,\overline{X4}$

Group 1 $\overline{X3}\,\overline{X4}$

Group 3 $X1\overline{X4}$