

| $y_2 y_1 \backslash y_0 w$ | 00 | 01 | 11 | 10 |
|----------------------------|----|----|----|----|
| 00 | 0 | 0 | X | X |
| 01 | 0 | 1 | 1 | 0 |
| 11 | 0 | 0 | 1 | 0 |
| 10 | 0 | 1 | 1 | 0 |

y_0

$$Y_0 = y_0 w + w \bar{y}_2 y_1 + w y_2 \bar{y}_1$$

| $y_2 y_1 \backslash y_0 w$ | 00 | 01 | 11 | 10 |
|----------------------------|----|----|----|----|
| 00 | 0 | 1 | X | X |
| 01 | 0 | 1 | 1 | 1 |
| 11 | 0 | 0 | 0 | 1 |
| 10 | 0 | 1 | 0 | 1 |

y_1

$$Y_1 = \bar{y}_0 \cdot w \cdot \bar{y}_1 + w \cdot \bar{y}_2 + \cancel{y_0 \cdot \bar{y}_2} + y_0 \cdot \bar{w}$$

| $y_2 y_1 \backslash y_0 w$ | 00 | 01 | 11 | 10 |
|----------------------------|----|----|----|----|
| 00 | 0 | 0 | x | x |
| 01 | 0 | 0 | 1 | 1 |
| 11 | 0 | 1 | 1 | 1 |
| 10 | 0 | 0 | 1 | 1 |

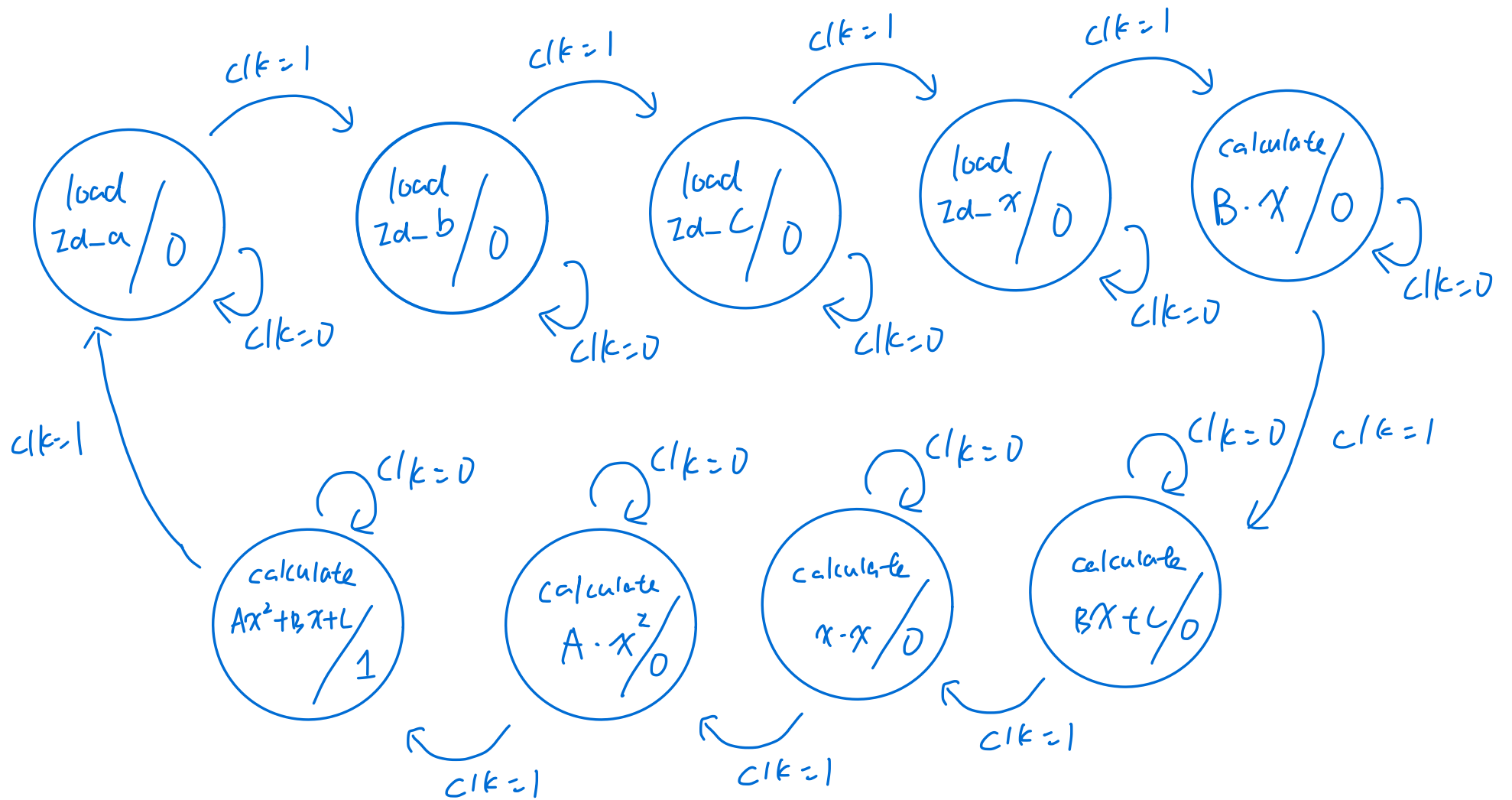
y_2

$$y_2 = y_0 + w y_2 y_1$$

| $y_2 y_1 \backslash y_0 w$ | 00 | 01 | 11 | 10 |
|----------------------------|----|----|----|----|
| 00 | 0 | 0 | x | x |
| 01 | 0 | 0 | 0 | |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 1 | 1 | 1 | 1 |

z

$$z = y_2 \overline{y_1}$$



~~Y Y~~
~~Y~~

$L^4 \times 1$

F_e

$$\overline{y_1 y_0} + y_1 \overline{y_0} + y_3$$

| $y_1 y_0$ | | | | |
|-----------|----|----|----|----|
| $y_2 y_1$ | 00 | 01 | 11 | 10 |
| 00 | x | x | x | x |
| 01 | 0 | 0 | 1 | 1 |
| 11 | x | x | x | x |
| 10 | 0 | x | x | x |

y_1

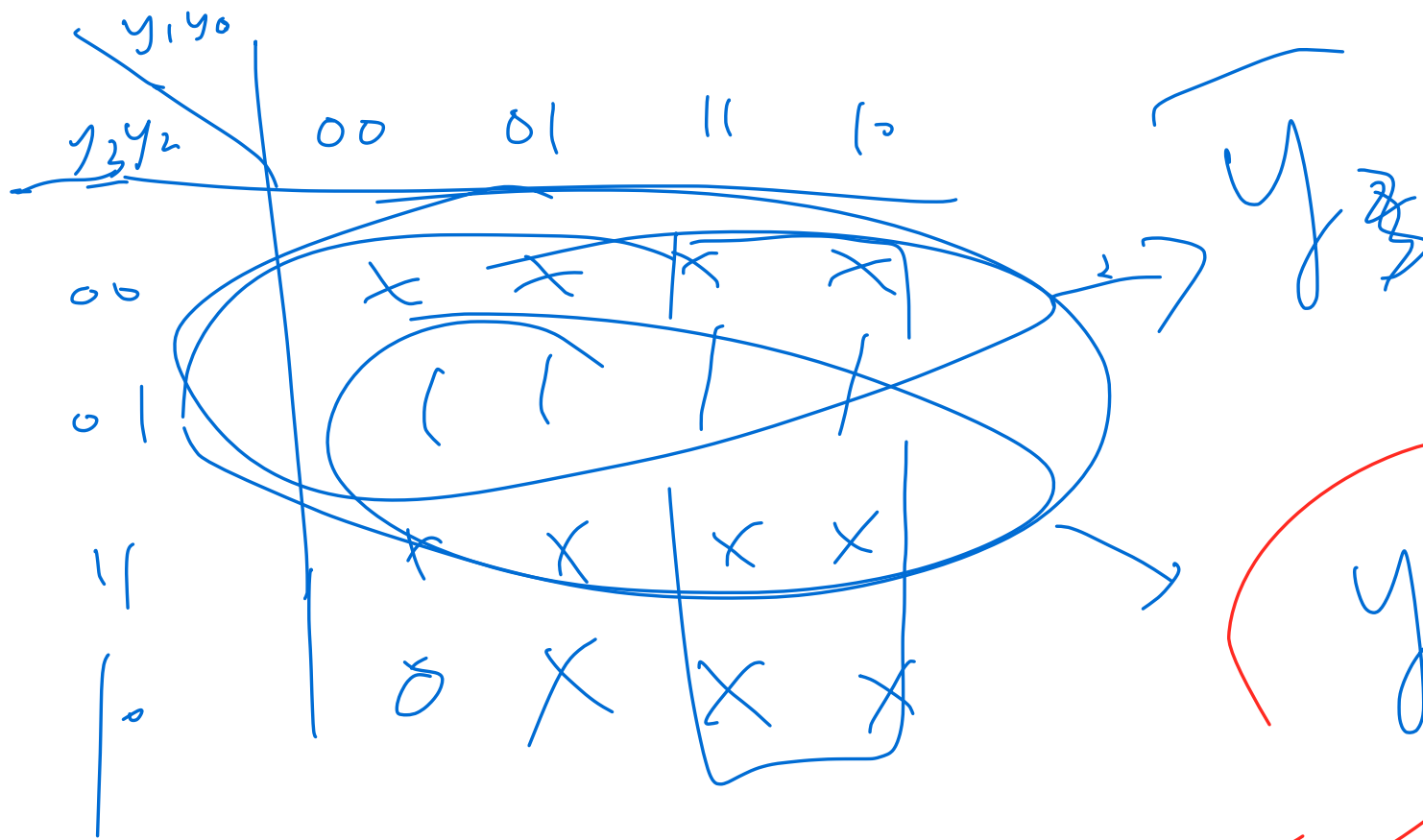
select_a

$y_1 y_0$
 y_1
 11

| $y_1 y_0$ | 00 | 01 | 11 | 10 |
|-----------|----|----|----|----|
| $y_2 y_1$ | | | | |
| 00 | x | 0 | 1 | 0 |
| 01 | 0 | 0 | 0 | 0 |
| 11 | x | x | x | x |
| 10 | 0 | x | x | x |

id_x

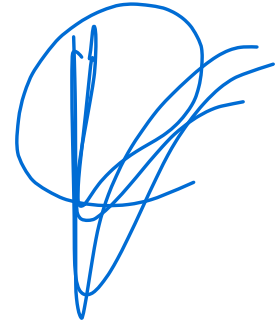
$y_2 y_1 y_0$



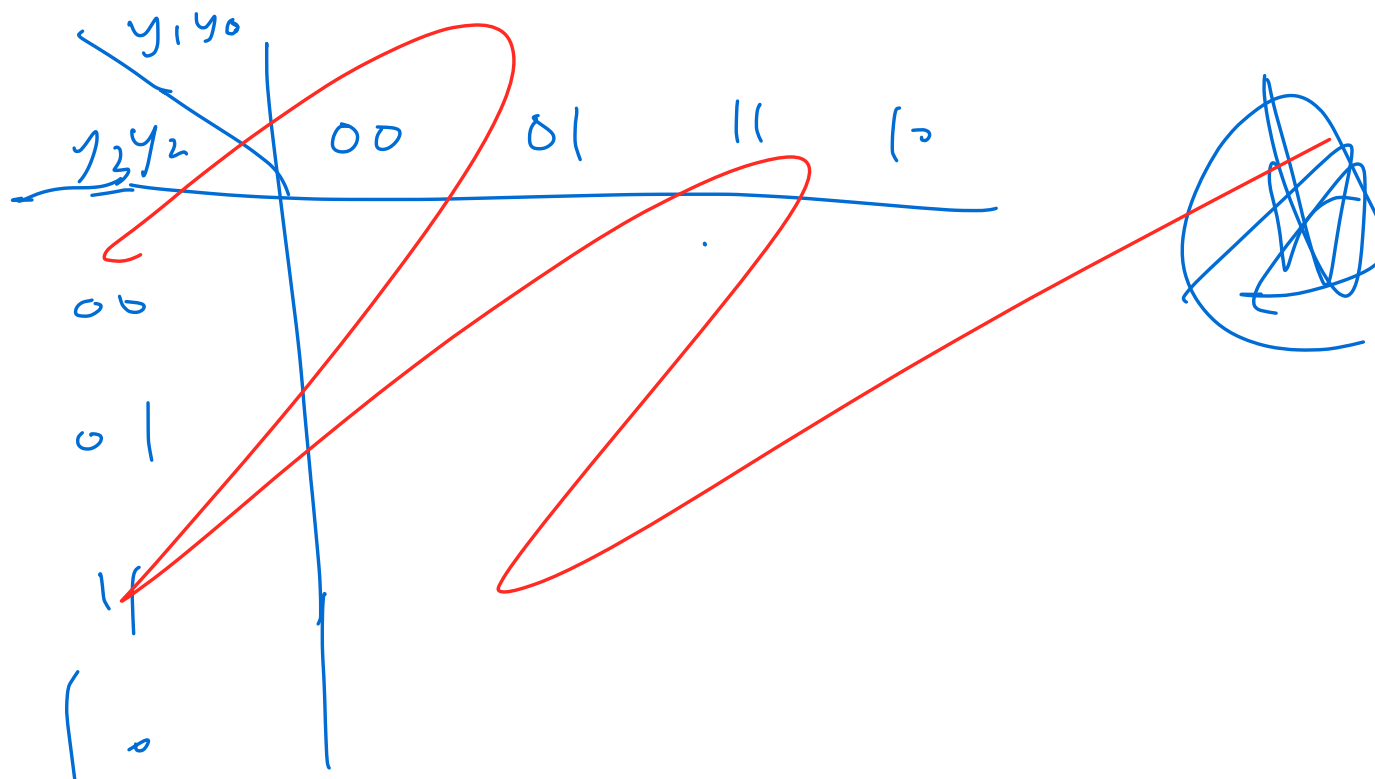
y_2

Δu_{out}

| $y_1 y_0$ | 00 | 01 | 11 | 10 |
|-----------|----|----|----|----|
| $y_2 y_1$ | 00 | 00 | 00 | 00 |
| 01 | 00 | 00 | 00 | 00 |
| 11 | 00 | 00 | 00 | 00 |
| 10 | 00 | 00 | 00 | 00 |



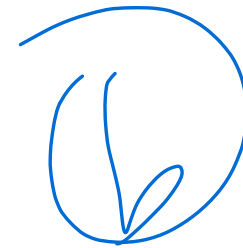
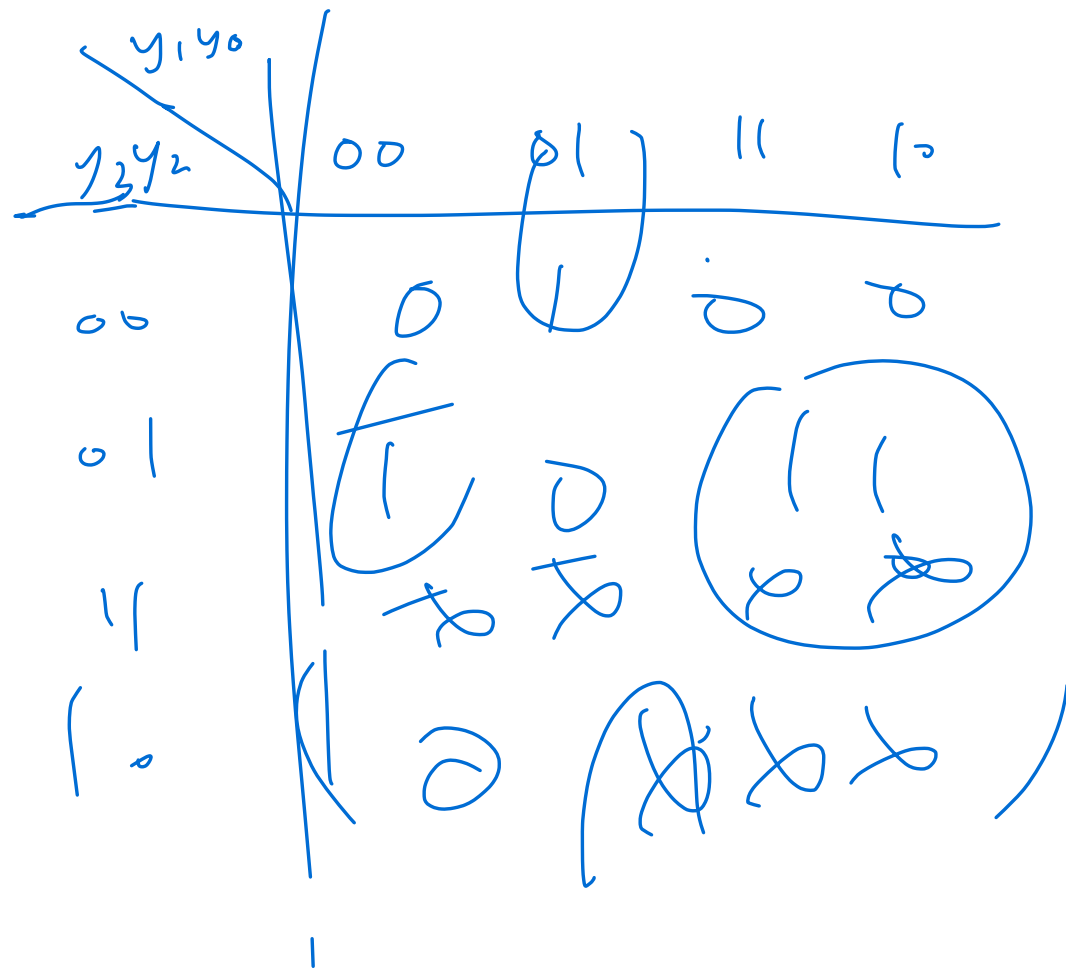
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| $y_2 y_1 y_0$ | $y_1 y_0$ | 00 | 01 | 11 | 10 |
|---------------|-----------|----|----|----|----|
| 11 | 00 | 1 | 0 | 0 | 0 |
| 01 | 01 | 0 | 1 | 0 | 0 |
| 11 | 11 | 0 | 1 | 0 | 0 |
| 10 | 10 | 0 | 0 | 0 | 0 |

$$y_2 y_1 y_0 + y_2 \bar{y}_1 y_0$$

⑤



$$\overline{y_2} \overline{y_1} y_0 + y_2 \overline{y_1} + y_2 y_1$$

| $y_1 y_0$ | 00 | 01 | 11 | 10 |
|-----------|----|----|----|------|
| $y_2 y_1$ | 00 | 01 | 00 | (11) |
| 01 | 00 | 01 | 00 | 01 |
| 11 | 01 | 01 | 00 | 01 |
| 10 | 01 | 01 | 00 | 01 |



$\overline{y_2} y_1 \overline{y_0}$

| $y_1 y_0$ | $y_2 y_1$ | | | |
|-----------|-----------|----|----|----|
| | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 0 | 0 |
| 01 | 1 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 |

| $y_1 y_0$ | $y_2 y_1$ | | | |
|-----------|-----------|----|----|----|
| | 00 | 01 | 11 | 10 |
| 00 | 0 | 0 | 0 | 0 |
| 01 | 1 | 1 | 1 | 1 |
| 11 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 |

y_1

$y_2 y_0$

vector y_0

y_2

| $y_1 y_0$ | 00 | 01 | 11 | 10 |
|-----------|----|----|----|----|
| $y_2 y_1$ | 00 | 00 | 00 | 00 |
| 01 | 00 | 00 | 00 | 00 |
| 11 | 00 | 00 | 00 | 00 |
| 10 | 00 | 00 | 00 | 00 |

| | $y_1 y_0$ | 00 | 01 | 11 | 10 |
|-----------|-----------|-------------|-------------|-------------|-------------|
| $y_3 y_2$ | | | | | |
| 00 | | \emptyset | \emptyset | \emptyset | \emptyset |
| 01 | | \emptyset | \emptyset | \emptyset | \emptyset |
| 11 | | \times | \times | \times | \times |
| 10 | | \times | \times | \times | \times |

$y_3 \overline{y_2} \overline{y_1} \overline{y_0}$

y_3, y_2, y_1, y_0

y_3, y_2, y_1, y_0

0 0 0 0

0 0 0 1

0 0 1 0

0 0 1 1

0 1 0 0

0 1 0 1

0 1 1 0

0 1 1 1

1 0 0 0

0 0 0 1

0 0 1 0

0 0 1 1

0 1 0 0

0 1 0 1

0 1 1 0

0 1 1 1

1 0 0 0

0 0 0 0

y_3, y_2, y_1, y_0

y_3, y_2, y_1, y_0

0 0 0 0

0 0 0 1

0 0 1 0

0 0 1 1

0 1 0 0

0 1 0 1

0 1 1 0

0 1 1 1

1 0 0 0

0 0 0 1

0 0 1 0

0 0 1 1

0 1 0 0

0 1 0 1

0 1 1 0

0 1 1 1

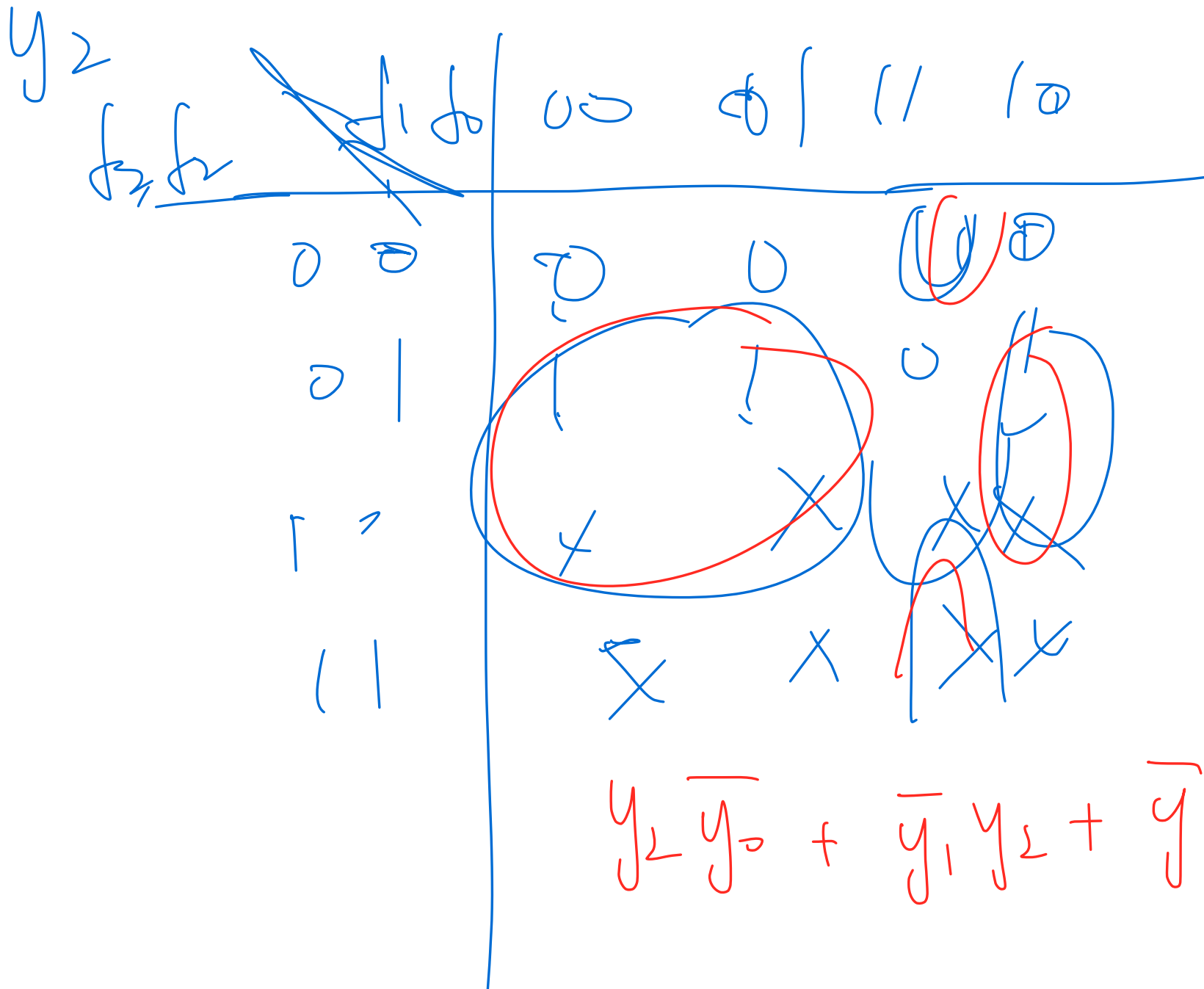
1 0 0 0

0 0 0 0

y_3

| y_3 | 00 | 01 | 11 | 10 |
|-------|---------------|---------------|---------------|---------------|
| 00 | 0 | 0 | 0 | 0 |
| 01 | 0 | 1 | 0 | 0 |
| 11 | 1 | 1 | 0 | 0 |
| 10 | 1 | 1 | 0 | 0 |

$y_2 y_1 y_0$



~~h₂h~~ ~~h₁h~~

~~h₁h~~

00

01

11

10

0 0

0 1

1 0

1 1

0

0

X

X

(
X
X

0

0

X X

X X

(
X
X

$\overline{y}, y_0 +$
 y, \overline{y}_0

~~h₂h₁h₀~~

Handwritten table with columns labeled y_3, y_2, y_1, y_0 and rows labeled y_3, y_2, y_1, y_0 . The table contains various symbols including circles, crosses, and a large 'C'.

| y_3 | y_2 | y_1 | y_0 |
|-------|-------|-------|-------|
| 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 1 | 1 | 0 |

Below the table, the expression $y_2 y_1 y_0$ is written.

$$y_3 y_0 + y_1 y_0$$

$$C x^L + B x + A$$

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