

| A | BC | | | |
|---|-----|-----|-----|-----|
| | 00 | 01 | 10 | 11 |
| 1 | 111 | 110 | 100 | 101 |
| 0 | 011 | 010 | 000 | 001 |
| | 0 | 0 | 0 | 0 |

$$Y = (A + \vec{C}) (\vec{A}B) (\vec{B}\vec{C})$$

$$(A + \vec{C}) \mid (\vec{B} + \vec{C})$$

| | | | | |
|--------------|------------|------------|------------|------------|
| | 00 | 01 | 11 | 10 |
| A B 00 | 0000 0 | 0001 1 | 0011 3 | 0010 2 |
| 01 | 0100 4 | 0101 5 | 0111 7 | 0110 6 |
| 11 | 1100 12 | 1101 13 | 1111 15 | 1110 14 |
| 10 | 1000 8 | 1001 9 | 1011 11 | 1010 10 |

| |
|-----|
| 01 |
| 101 |
| 001 |
| 0 |

KIEFELÉS

$$Y = \overline{A}BC + A\overline{B}C$$

| | | | | |
|--------|----------|----|----|----|
| | BC 00 | 01 | 11 | 10 |
| A 0 | | | 1 | 1 |
| 1 | 0 | 0 | 0 | 0 |

$$Y = \sum^3(2,3)$$

$$\begin{aligned} \overline{A} + A &= 1 \\ B + \overline{B} &= 1 \\ C + \overline{C} &= 1 \end{aligned}$$

$$\begin{aligned} 011 \\ 010 \\ \hline \overline{A}B \end{aligned}$$

| | | | | |
|--------|----------|----|----|----|
| | BC 00 | 01 | 11 | 10 |
| A 0 | 1 | | | 1 |
| 1 | 1 | 1 | | 1 |

$$\sum^3(0,1,4,6,5)$$

$$\begin{aligned} &\overline{100101} \\ &ABC \\ &000 \\ &010 \\ &100 \\ &110 \end{aligned} \Rightarrow \overline{C}$$

$$\begin{aligned} &ABC \\ &100 \\ &\underline{101} \end{aligned} \Rightarrow \overline{AB}$$

$$Y = \overline{AB} + \overline{C}$$

$$\begin{aligned} A &= 0011 \\ B &= 0101 \\ C &= 0000 \end{aligned}$$

1.

| I | A | B | C | Y |
|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 |
| 2 | 0 | 1 | 0 | 0 |
| 3 | 0 | 1 | 1 | 1 |
| 4 | 1 | 0 | 0 | 0 |
| 5 | 1 | 0 | 1 | 1 |
| 6 | 1 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 |

$\overline{A}BC$
 $\overline{A}\overline{B}C$
 $\overline{A}B\overline{C}$ ~~$\overline{A}B\overline{C}$~~
 ABC

$$Y = \overline{A}BC + \overline{A}\overline{B}C + \overline{A}B\overline{C} + ABC$$

$$Y_{\text{min DIS2}} = AB + BC + AC$$

$$Y = (\overline{A} + B + C) \cdot (A + \overline{B} + C) \cdot (A + B + \overline{C}) \cdot (A + B + C)$$

$$Y_{\text{minberg}} = (A+B) \cdot (B+C) \cdot (A+C)$$

| | | | |
|---|---|-----------------|----------------------------|
| | B | 0 | 1 |
| A | 0 | $\overline{A}B$ | $\overline{A}\overline{B}$ |
| 1 | 1 | $A\overline{B}$ | AB |

| | | | |
|---|---|----|----|
| | B | 0 | 1 |
| A | 0 | 0 | 01 |
| 1 | 1 | 10 | 11 |

| | | | | | |
|---|----|-----|-----|-----|-----|
| | BC | 00 | 01 | 11 | 10 |
| A | 0 | 000 | 001 | 011 | 010 |
| | | 0 | 1 | 3 | 2 |
| 1 | 1 | 100 | 101 | 111 | 110 |
| | | 4 | 5 | 7 | 6 |