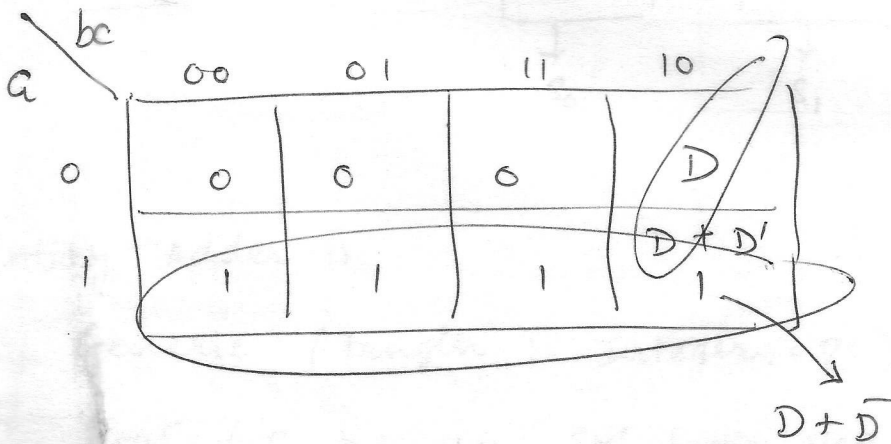


Map Entered Variables.

(Signal) \Rightarrow

Godse - ex 1

$$y = \bar{a}\bar{b}\bar{c} + \bar{a}\bar{b}c + \bar{a}b\bar{c}d + abc + abc\bar{e}$$

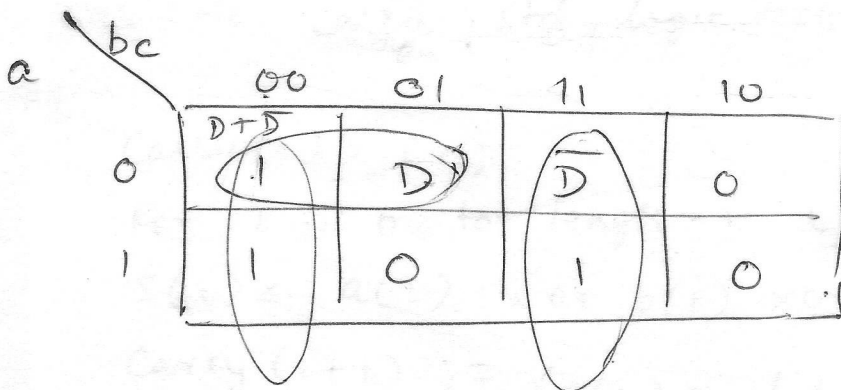


$$y = a + b\bar{c}\boxed{d}$$

we add this from the map.

Godse: ex 2

$$y = \bar{a}\bar{b}\bar{c}\bar{d} + \bar{a}\bar{b}\bar{c}d + \bar{a}b\bar{c}\bar{d} + \bar{a}b\bar{c}d + \bar{a}b\bar{c}d + \bar{a}bcd + \bar{a}bcd + abcd + abcd$$



$$y = \bar{b}\bar{c} + \bar{a}\bar{b} + \bar{b}\bar{c} + bcd + abcd$$

MEV

Case 3

| | | | | |
|---------|----|----|----|----|
| ab \ cd | 00 | 01 | 11 | 10 |
| 00 | 1 | 1 | 1 | |
| 01 | | | | 1 |
| 11 | | | 1 | 1 |
| 10 | 1 | 1 | | |

$$Y = \bar{b}\bar{c} + \bar{a}b\bar{d} + bcd + abc$$

| | | | | |
|--------|---------------|----|---------------|----|
| a \ bc | 00 | 01 | 11 | 10 |
| 0 | d + \bar{d} | d | \bar{d} | 0 |
| 1 | d + \bar{d} | 0 | d + \bar{d} | 0 |

XZ

| | | | | |
|--------|----|----|-----------|----|
| a \ bc | 00 | 01 | 11 | 10 |
| 0 | 1 | d | \bar{d} | 0 |
| 1 | 1 | 0 | 1 | 0 |

$$Y = \bar{b}\bar{c} + \underline{abc} + \underline{\bar{a}bd} + \underline{\bar{b}cd}$$