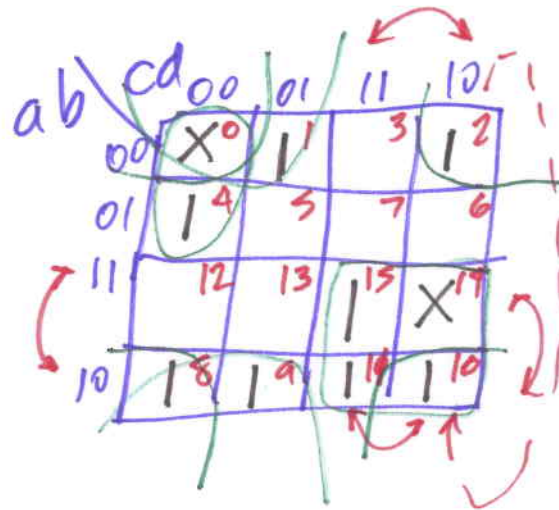


# Digital Design - Review for Exam!

2019-10-01

①

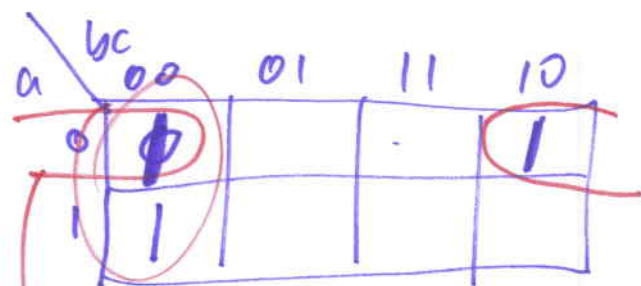
$$\Sigma(1, 2, 4, 8, 9, 10, 11, 15) + X(0, 14)$$



$$ac + b'd' + bc' + a'c'd'$$

| abc | F |
|-----|---|
| 000 | 1 |
| 001 | 0 |
| 010 | 0 |
| 011 | 0 |
| 100 | 1 |
| 101 | 0 |
| 110 | 0 |
| 111 | 0 |

$$F = a'b'c' + a'bc' + ab'c'$$



$$F = b'c' + a'c' = c'(b' + a')$$

$$b'c'(a + a') + a'c'(b + b')$$

$$F = a'b'c' + a'bc' + a'bc' + a'bc'$$