

Mapa de Karnaugh

1) $AB + A'B$

$$B(A + A') = BA + BA$$

1 1 1 0

| B \ A | 0 | 1 |
|-------|---|---|
| 0 | 0 | 1 |
| 1 | 1 | 1 |
| | | |
| 1 0 | | |

B

2) $AB' + A'B + A'B'$

$$A'(B + B')$$

$$= AB' + A'$$

1 0 + 0

| B \ A | 0 | 1 |
|-------|---|---|
| 0 | 1 | 1 |
| 1 | 1 | 0 |
| | | |

$A' + B'$

3) $AB'C + A'B'C + ABC'$

1 0 1 0 0 1 1 1 0

| c \ b a | 00 | 01 |
|---------|----|----|
| 00 | 0 | 1 |
| 01 | 1 | 1 |
| 11 | | |
| 10 | | 1 |

$b'E + abc'$

4) $ABC + AB'C + A'BC + ABC' + A'BC'$
 $111 \quad 101 \quad 011 \quad 110 \quad 010$

| $a \backslash bc$ | 0 | 1 |
|-------------------|---|---|
| 00 | | |
| 01 | | 1 |
| 11 | 1 | 1 |
| 10 | 1 | 1 |

$b + ac$

5) $ABC + A'BC + AB'C' + A'B'C'$
 $101 \quad 001 \quad 100 \quad 000$

| $a \backslash bc$ | 0 | 1 |
|-------------------|---|---|
| 00 | 1 | 1 |
| 01 | 1 | 1 |
| 11 | | |
| 10 | | |

B'

6) $ABC + AB'C + ABC' + AB'C'$
 $111 \quad 101 \quad 110 \quad 100$

| $a \backslash bc$ | 0 | 1 |
|-------------------|---|---|
| 00 | | 1 |
| 01 | | 1 |
| 11 | | 1 |
| 10 | | 1 |

A