

a

| AB\CD      | 00  | 01 | 10 | 11 |
|------------|---|----|----|----|
| 00         | 1   | 0  | 1  | 1  |
| 01         | 0   | 1  | 1  | 1  |
| 10         | 0   | 1  | 0  | 1  |
| 11         | 1   | 1  | 1  | 1  |
| Resultado: | $a = A \sim B + C \sim D + \sim A C + \sim B \sim D + B \sim C D$ |    |    |    |

b

| AB\CD      | 00   | 01 | 10 | 11 |
|------------|--|----|----|----|
| 00         | 1  | 0  | 0  | 0  |
| 01         | 1  | 1  | 0  | 1  |
| 10         | 1  | 0  | 0  | 0  |
| 11         | 1  | 0  | 1  | 1  |
| Resultado: | $b = \sim C \sim D + A \sim B C + \sim A B \sim C + \sim A B \sim D$ |    |    |    |

c

| AB\CD      | 00                             | 01 | 10 | 11 |
|------------|--------------------------------|----|----|----|
| 00         | 1                              | 0  | 0  | 1  |
| 01         | 0                              | 0  | 0  | 1  |
| 10         | 0                              | 0  | 0  | 1  |
| 11         | 1                              | 0  | 0  | 1  |
| Resultado: | $c = C \sim D + \sim B \sim D$ |    |    |    |

d

| AB\CD      | 00   | 01 | 10 | 11 |
|------------|--|----|----|----|
| 00         | 1  | 0  | 1  | 1  |
| 01         | 0  | 1  | 0  | 1  |
| 10         | 0  | 1  | 0  | 1  |
| 11         | 1  | 0  | 1  | 1  |
| Resultado: | $d = C \sim D + \sim B C + \sim B \sim D + B \sim C D$ |    |    |    |

e

| AB\CD      | 00                                     | 01 | 10 | 11 |
|------------|--|----|----|----|
| 00         | 1                                      | 1  | 1  | 0  |
| 01         | 1                                      | 1  | 1  | 1  |
| 10         | 1                                      | 1  | 1  | 0  |
| 11         | 1                                      | 1  | 1  | 1  |
| Resultado: | $e = \sim C + D + \sim A B + A \sim B$ |    |    |    |

f

| AB\CD      | 00  | 01 | 10 | 11 |
|------------|---|----|----|----|
| 00         | 1   | 1  | 1  | 1  |
| 01         | 1   | 0  | 1  | 0  |
| 10         | 1   | 1  | 1  | 1  |
| 11         | 1   | 1  | 0  | 0  |
| Resultado: | $f = \sim A \sim B + A B + \sim C \sim D + A \sim C + \sim A C D$ |    |    |    |

g

| AB\CD      | 00  | 01 | 10 | 11 |
|------------|---|----|----|----|
| 00         | 0   | 0  | 1  | 1  |
| 01         | 1   | 1  | 0  | 1  |
| 10         | 1   | 1  | 0  | 1  |
| 11         | 1   | 0  | 1  | 1  |
| Resultado: | $g = C \sim D + B \sim C + A \sim D + \sim B C$ |    |    |    |

sin

| AB\CD      | 00         | 01 | 10 | 11 |
|------------|------------|----|----|----|
| 00         | 0          | 0  | 0  | 0  |
| 01         | 0          | 0  | 0  | 0  |
| 10         | 1          | 1  | 1  | 1  |
| 11         | 1          | 1  | 1  | 1  |
| Resultado: | $\sin = A$ |    |    |    |