

# OEFENINGEN MET KARNAUGHKAARTEN

## Reeks 1

1.  $X = ab + \bar{a}b$

2.  $X = a\bar{b} + \bar{a}b + \bar{a}\bar{b}$

3.  $X = abc + \bar{a}b\bar{c} + \bar{a}bc + \bar{a}\bar{b}\bar{c}$

4.  $X = \bar{a}\bar{b}\bar{c} + \bar{a}b\bar{c} + \bar{a}bc + ab\bar{c} + \bar{a}bc + \bar{a}b\bar{c} + \bar{a}bc$

## Reeks 2

1.  $X = ab\bar{c} + \bar{a}bc + abc + \bar{a}b\bar{c}$

2.  $Y = \bar{a}\bar{b}\bar{c} + \bar{a}b\bar{c} + \bar{a}b\bar{c} + ab\bar{c}$

3.  $F = ABCD + \bar{A}B\bar{C}D + AB\bar{C}D + \bar{A}BCD$

4.  $F = AB + \bar{B}D + \bar{A}D + \bar{A}B\bar{D}$

5.  $X = \sum m(1, 3, 4, 6, 9, 11, 12, 14)$

6.  $Y = \sum m(1, 2, 3, 4, 5, 6, 13, 14, 15)$

7.  $Z = \sum m(0, 1, 2, 3, 4, 6, 8, 9, 10, 11, 12, 14)$

8.  $F = a + \bar{d} + cd$