

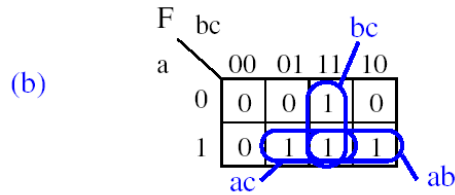
6.2 Perform two-level logic size optimization for the function $F(a, b, c) = ab'c + abc + a'bc + abc'$ using (a) algebraic methods, (b) a K-map. Express the answers as sum-of-products.

a) $F = ab'c + abc + a'bc + abc'$

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

$F = ac(b' + b) + bc(a + a') + ab(c + c')$

$F = ac + bc + ab$



$F(a,b,c) = ab + ac + bc$