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

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