A $f(a, b, c, d) = b'd' + a'c + a'bd + ab'c' + ad' + bc$

B $f(a, b, c, d) = a'c'd' + a'cd + b'd' + ac'd + a'b'$

C $f(a, b, c, d) = a'b + ab' + c'd + a'c' + a'd$

D $f(a, b, c, d) = bc'd + a'b'd' + b'cd + bcd' + ac'$

E $f(a, b, c, d) = b'd' + cd' + ac + ab$

F $f(a, b, c, d) = c'd' + a'bc' + bd' + ab' + ac$

G $f(a, b, c, d) = b'c + ab' + a'bc' + cd' + ad$