HW3a

1. Use DeMorgan's theorem to remove the complement outside the braces:

    (a) F=((x′+w)y+wyz+x′z(x+y))′, (b) F=(x(y+y′(z+w)))′.

2. Simplify the following expressions in (a) sum of products and (b) product of sums:

$$F(x, y, z) = xy' + y'z + xz + xyz'$$

For each problem, use Verilog to simulate the two logic functions before and after brace removal for function verification.