**Homework 6**

**Computer Architecture**

1. Simplify the expression A′B + ABC′ + ABC using Boolean algebra.
2. Simplify the Boolean function F using three–variable map.

F(x, y, z) = ∑(1, 2, 3, 6, 7).

1. Simplify the Boolean function F together with the don’t–care conditions d in
2. sum-of-products form and
3. product-of-sums form.

F(w, x, y, z) = ∑(0, 1, 2, 3, 7, 8, 10)

d(w, x, y, z) = ∑(5, 6, 11,15)