

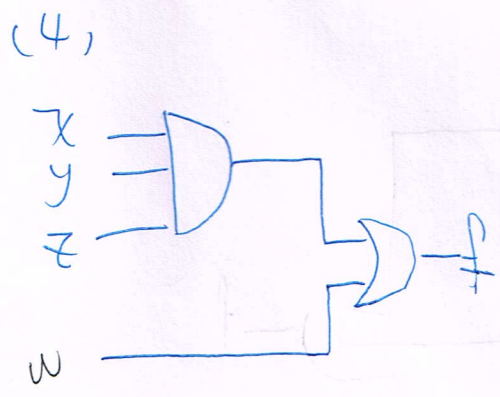
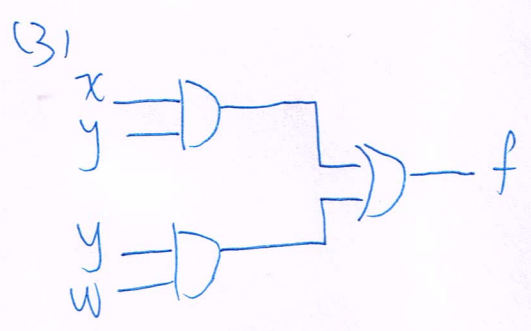
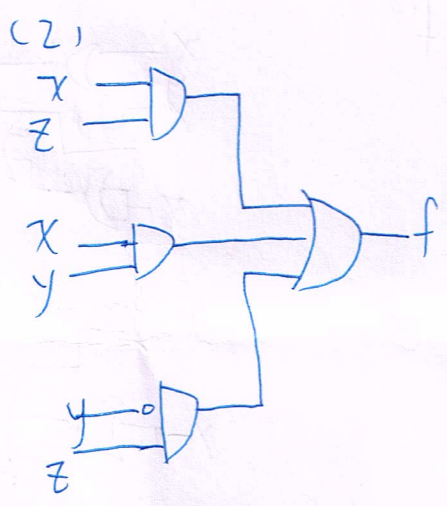
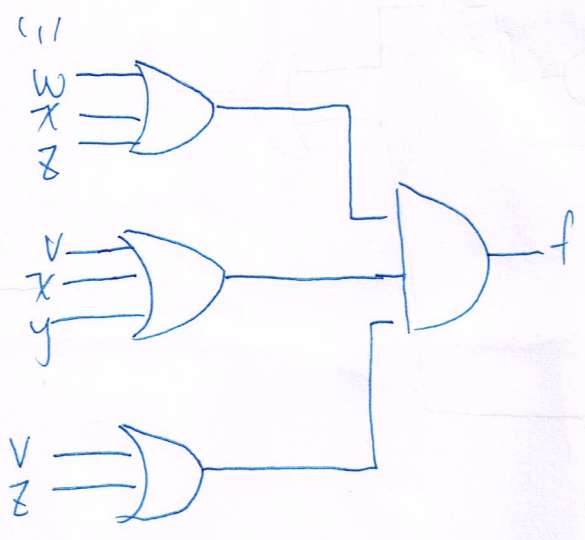
21. (1) 試以基本的 AND, OR, 與 NOT 等邏輯閘執行下列各交換函數:

(1)  $f(V, W, X, Y, Z) = (W + X + Z)(V + X + Y)(V + Z)$

(2)  $f(X, Y, Z) = XZ + XY' + Y'Z$

(3)  $f(W, X, Y, Z) = XY + Y(WZ' + WZ) \Rightarrow XY + Y(W(Z' + Z)) = Y(W + Z)$

(4)  $f(W, X, Y, Z) = XYZ + (X + Y)(X + Y')$



29.  $f(x, y, z) = x'y + x'z + xy'z'$       $x'(y+z) + xy'z'$

“(1) 使用 AND, OR, 與 NOT, 每個與 OR 閘只有兩個輸入端

(2) 兩個輸入 NOR

(3) 兩個輸入 NAND

