

邏輯 HW 2.

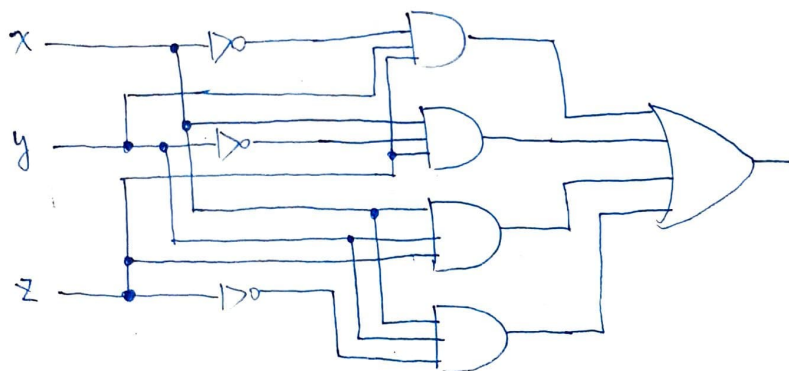
1. (a) $x'y'z + xy'z + xyz + xyz'$

$$= x'y'z + xy'z + xyz + xyz' + xyz + xyz$$

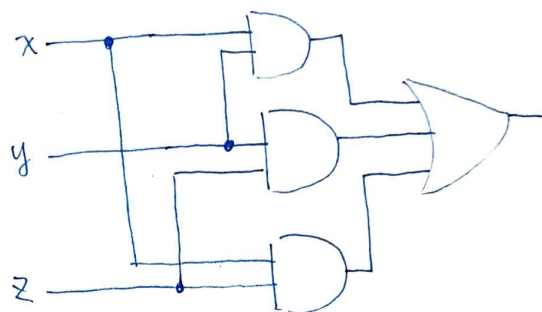
$$= (x'+x)y'z + (y+y')xz + (z+z')xy$$

$$= xy + yz + xz$$

original



simplified

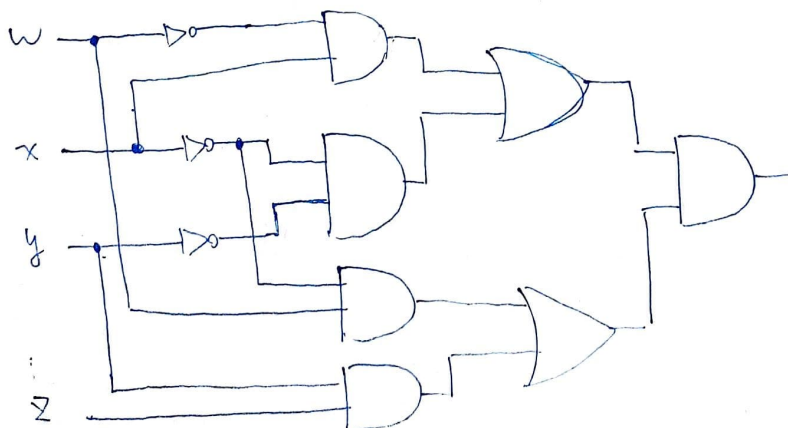


(b) $(x'y' + xw')(x'w + yz)$

$$= x' \cdot x' \cdot w \cdot y' + \underbrace{x'y' \cdot y \cdot z}_{=0} + \underbrace{x \cdot x' \cdot w \cdot w'}_{=0} + w'xyz$$

$$= wx'y' + w'xyz$$

original



simplified

