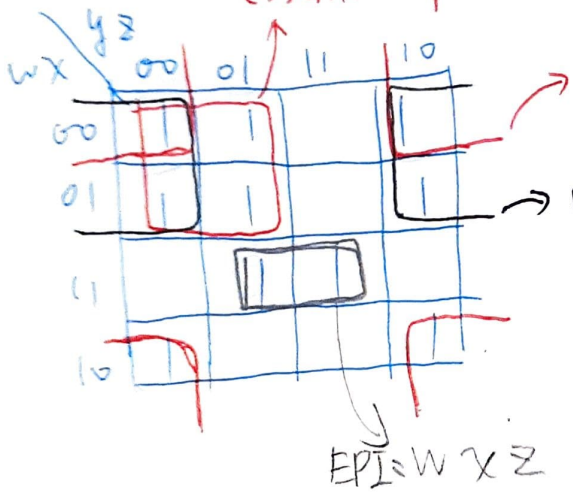
2.

(a) $F(w,x,y,z) = \Sigma(0,1,2,4,5,6,8,10,13,15)$



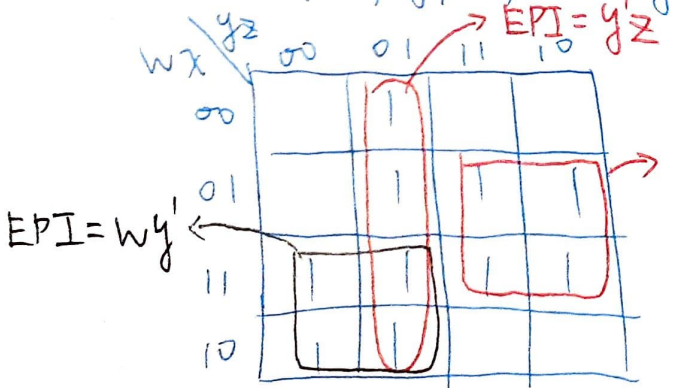

EPI = $w'y'$, $x'z'$, $w'z'$, $wxz$

PI = $w'y'$, $x'z'$, $w'z'$, $wxz$

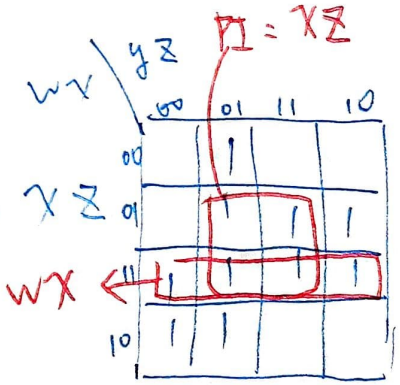
$\therefore F = w'y' + w'z' + x'z' + wxz$

---

(b) $F(w,x,y,z) = wy' + xy + y'z + w'xz$




EPI = $y'z$, $xy$, $wy'$

PI = $y'z$, $xy$, $wy'$, $wx$, $xz$

$\therefore F = wy' + y'z + xy$