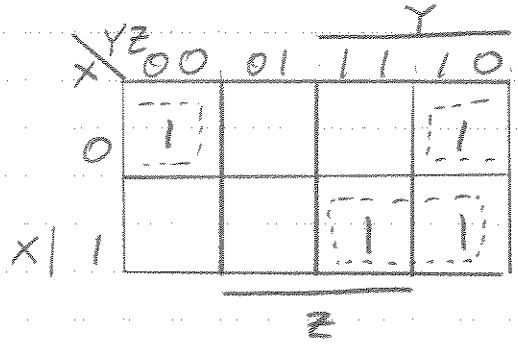
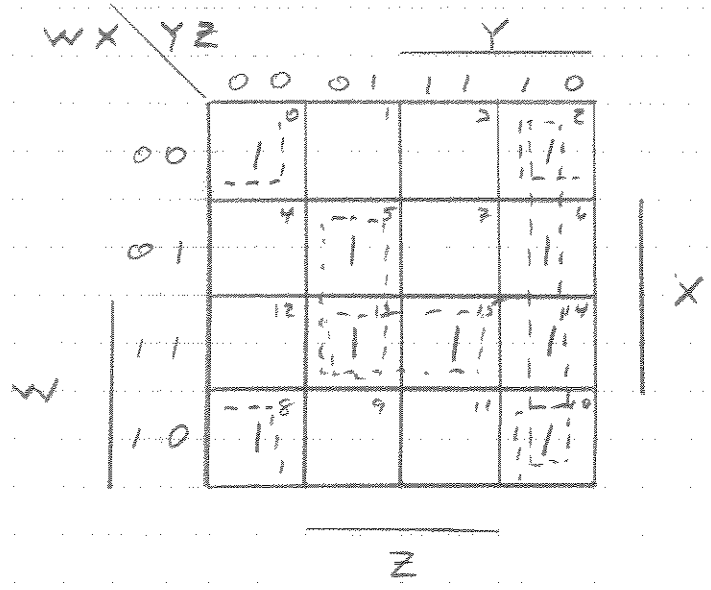
Keith A. Kurtz
CS 42
Assig. 3
Fall 2004

2-15) a) $\bar{X}\bar{Z} + Y\bar{Z} + XYZ$



$= \bar{X}\bar{Z} + XY$

2-16) b) $F(w, x, y, z) = \Sigma m(0, 2, 5, 6, 8, 10, 13, 14, 15)$



$= \bar{X}\bar{Z} + Y\bar{Z} + wxz + x\bar{Y}z$
OR
$= \bar{X}\bar{Z} + Y\bar{Z} + wxy + x\bar{Y}z$

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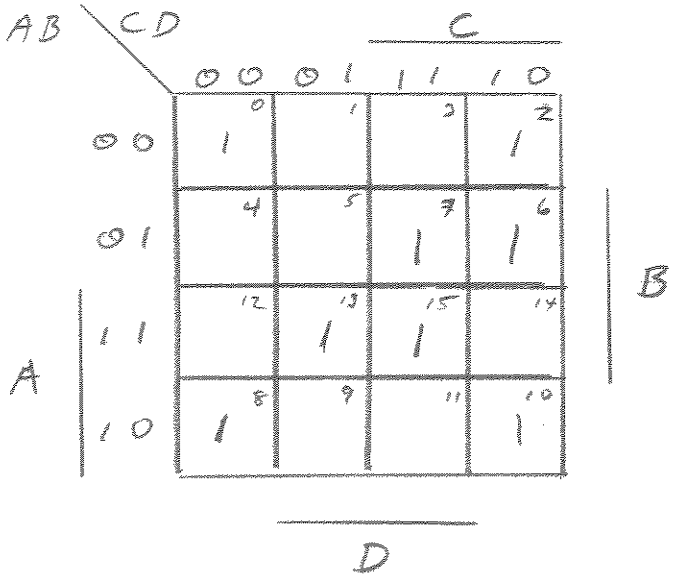
2-18) c) $\bar{B}\bar{D} + ABD + \bar{A}BC$



$= \sum m(0, 2, 6, 7, 8, 10, 13, 15)$