XYZ ZYTY+Z ZXYZ
2-1.(a) X Y Z
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2-2. (a) $\overline{x}\overline{y} + \overline{x}y + xy = \overline{x}(\overline{y} + y) + xy = \overline{x} + xy = \overline{x} + y$
(c) $Y + \overline{X} \neq + X \overline{Y} = (Y + X)(Y + \overline{Y}) + \overline{X} = Y + X + \overline{X} = Y + \overline{X}$
(C) Y+X+X=(IIX)(IIIX)
$=Y+(X+\bar{X})(X+\bar{X})=Y+X+\bar{X}$
2-3. (a) ABC + BCD + BC+ CD
= AB+ BC+ BC+CD
= B+AB+ CD = B+CD.

```
(C). AD+ AB+CD+BC = (A+D)(A+B) & C+D)(B+C)
      = ABCD + ABCD = (ATB+C+D)(A+B+(+D).
2-6. (b) (AB+C) · ABC = ABC· (A+B+C) = HABC + ABBC+ ABCC
    = ABC + ABC + ABC = ABC.
   (d) ABD + ACD+BD = (AB +AC+B) D = (ATB)D.
2-10. (a) x
                                    COM: XYZ+XYZ+XYZ+XYZ.
                                   POM: (X+X+2)(X+Y+2)(X+X+2)
                                         ( X+Y+2)
            0001
                                       SOM: WXYZ + WXYZ+
  (L)
      MXXX + XXXX + XXXX + XXXX
         0011001100110011
                                      PDM : (W+X+Y+Z)(W+X+Y+Z)(V+X+Y+Z
      W 010101010101010 1 2 1 2 (W+X+Y+Z)(W+X+Y+Z)(W+X+Y+Z)
         0010001000101111
                                      (WIX+Y+Z)(WIX+Y+Z)(WIX+Y+Z)
2-11-(a). E = 5m(1,254,b) = Tm(0,3,5,7) = 0.186+0.1A+0.1+7A (D) 15-5
   ()+8+ FE = (0,1,4,7) = 1/m (1,3); 6) = (0,5) (0,18) (1)
     (C) ETF= Im(10,11704,6,7)// . 8x . 3x . 3min
        E.F=Zm(2,4) 3 X: 1000 100
    (d) E= XYZ+XYZ + XYZ+XYZ XXX = 3
        1-29. start (1): 0.073 x 5 t 0.045 = 5.34 xt. $YX+$YX+$YX+
2-12. b) * (YZ+FZ) X+ X (X+F)(Y+Z) = X+ (X+ XF)(Y+Z)
      = x + x Y + x x + x y z = x + Y + z (SOP) = (x+x)(x+Y+z)(POS)
```



