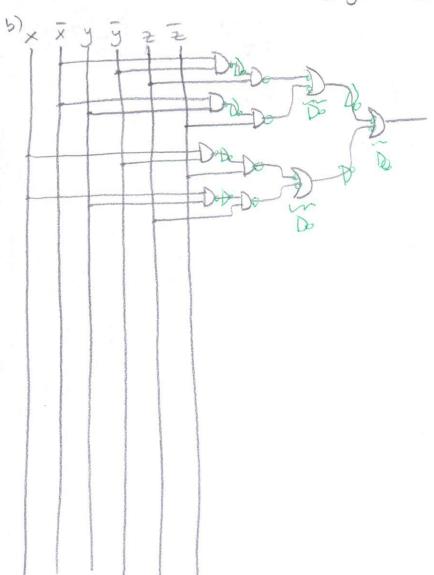
16.10,2012 Assignment 2 qozumbri Of(x,y,z) = 5m(0,3,5,6) => f'(x,y,z) = 5m(1,2,4,7) a) f'(x1y, z) = x'y'z + xyz' + xy'z' + xyz = = = (x'y'+xy) + = (x'y+xy') = (x'y + xy')' = (x+y')(x'+y) = (xx'+xy+y')' = (x'y + xy')' = (x+y')(x'+y) = (xx'+xy+y')'1 (x'y+xy')' = y'x'+xy
Yeri Bonun teri bu. 0 z' (x + + + ((x + y)')

(xey) Dz



```
2) f(a,b,c,d)= Em(4,5,6,7,9,12,13,15)= TM(0,1,2,3,8,10,11,
a) f=(a+b+c+d)(a+b+c+d)(a+b+c+d)(a+b+c+d)
 (a+b+c+d)(a+b+c+d)(a+b+c+d)(a+b+c+d)
= (atbtc) (atbtc) (atbtd) (atbtctd) (atbtctd)
= (a+b) (a+b+d) (a+b+c+d) (a+b+c+d) (a+b+c)
= (a+b)(a+b+d)(a+b+c+d)(a+b+c)
= (a+b)(a+b+d)(b+d)(a+b+c+d)(a+b+c)(a+c+d)
= (atb) (b+d) (a+b+c) (a+c+d)
= (a+b) (b+d) (a+b+c) (b+c) (a+c+d)
= (a+b)(b+d) (b+c) (a+c+d)
 00 01 11 10 (a+b) (b+d) (b+c) (a+c+d)
 foliais about + about + about + about + about + about
    tabedtabed
 = abctabctabdtabcdtabcd
 = abtabd+abed+abed
 = ab+abd+abcd+abcd
 = abtabd+abc tabed
 = ab+abd+bd+abc+abcd
= ab+bd+abc+bc+abcd
 = ab+bd+bc+abcd
 =abtbdtbctabcdtacd
```

= ab +bd +bc +acd =) (a+b) (b+d) (b+c) (a+c+d)