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CSCI 240 - Computer Organization and Assembly Language
Extra Credit
  January 8, 2023
6 bits
 (2) 0 \leq (x, y, z) = \leq (6,7)
               = xyz' + xyz'
     04(x, y, z) = & (4,5,7)
              = xy'z + xy'z + xyz
     O_3(x,y,z) = Z(3,5)
             = x'yz + xy'z
     O_2(x,y,z) = E(2,6)
              = x yz + xyz
```

$$O_{1}(x_{1}y_{1}z) = O(always z=0)$$

$$O_{2}(x_{1}y_{1}z) = E(1_{1}3_{1}S_{1}7)$$

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

$$2. F(x_{1}y_{1}z) = xy + x'z$$

$$(1) F'(x_{1}y_{1}z) = (xy + x'z)'$$

$$= (xy)'(x'z)'$$

$$= (xy)'(x'z)'$$

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

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

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

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

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

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

$$(2) F'(x_{1}y_{1}z) = x'x + x'z$$

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

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

$$= x'z' + xy' + x'z'$$

$$= x'z' + x'z' + x'z' + x'z'$$

$$= x'z' + x'z' + x'z' + x'z' + x'z'$$

$$= x'z' + x'z'$$

$$= x'z' + x'z' +$$