

$$F = xy + x'z + y'z' \Rightarrow F(x,y,z) = \sum(0,4,5,6,7)$$

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

$$- F(x,y,z) = \Pi(0,1,5,7) \Rightarrow \bar{F} = \sum(2,3,4,6) \Rightarrow \bar{F}' = \sum(0,1,5,7) \quad - 2$$

$$\bar{F}' = x'y'z' + x'y'z + xy'z + xyz$$

$$- F(x,y,z,w) = \Pi(0,2,4,11,14) \Rightarrow \bar{F}' = \sum(0,2,4,11,14)$$

$$\bar{F}' = x'y'z'w' + x'y'zw' + xy'z'w + xyzw'$$

$$- F(x,y,z) = \sum(1,4,5,6,7) \Rightarrow F' = \sum(0,2,3)$$

$$F' = x'y'z' + x'yz' + x'yz$$

$$- F(x,y,z,w) = \sum(0,3,5,9,12,13) \Rightarrow F' = \sum(1,2,4,6,7,8,10,11,14,15)$$

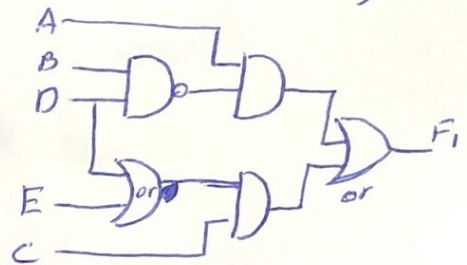
$$F' = x'y'z'w + x'y'zw' + x'y'z'w' + x'y'zw' + x'y'z'w + x'y'zw' + xy'z'w' + xy'z'w' + xy'z'w' + xy'z'w' + xy'z'w' + xy'z'w'$$

$$F_1(x,y,z) = M_0 \cdot M_2 \cdot M_5 = \Pi(0,2,5) \Rightarrow F_1'(x,y,z) = \sum(0,2,5) \quad - 3$$

$$F_1' = x'y'z + x'y'z' + xy'z$$

$$F_1 = AB' + C(D+E) + AD' \Rightarrow F = A(B'+D') + C(D+E) \quad - 4$$

$$F = A(BD)' + C(D+E)$$



$$F_1 = (x+y)(x'+z)(x+y'+z')$$

$$F_2 = x' + yz'$$

x	y	z	F <sub>1</sub>	F <sub>2</sub>
0	0	0	0	1
0	0	1	0	1
0	1	0	1	1
0	1	1	0	1
1	0	0	0	0
1	0	1	1	0
1	1	0	0	1
1	1	1	1	1

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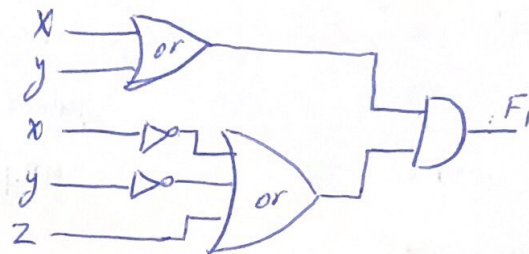
$$F_1 = x'yz' + x'y' \Rightarrow F_1' = (x'yz' + x'y')' = (x'yz')' \cdot (x'y')' = (x+y+z) \cdot (x+y)$$

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$$F_2 = x(yz' + yz) \Rightarrow F_2' = (x(yz' + yz))' = x' + (yz' + yz)' = x' + (y'z' + yz) = x' + (y+z)(y'+z')$$

$$F_3 = (xy' + z)x'z' \Rightarrow F_3' = (xy' + z)' + (x'z')' = (x+y)z' + x + z$$

$$F_1 = (x+y)(x'+y'+z) \Rightarrow$$



$$F_2 = x + (yz') + (x'y'z) + x'z'$$

