F\_3(x,y,z)=x'y'z'+x'yz +xy'

=x'z (y'+y)+xy'(distributed rule)

=x'z(1)+xy'(Inverse)

=x'z+xy'(Identity)

Canonical

\*SOP(Sum of products)

\*POS(Product of sums)

F\_1(x,y,z)=x+yz+x'y(sum of products)

F\_2(a,b,c)=(a+b)(a+x)(b'+c')(Product of sum)

Minterms

F\_1(x,y,z)=x+y'z

F\_1(x,y,z)=x'y'xy'z'+xyz'+xy

Maxterms

F\_1(x,y,z)=(x+y+z)(x+y'+z)(x+y'+x')

Maxterms are all False

Written in POS

\* X Y Z F\_1

0 0 0 0

0 0 1 1

0 1 0 0

0 1 1 0

1 0 0 1

1 0 1 1

1 1 0 1

1 1 1 1

Minterms

F\_1=∑(1,4,5,6,7)

Maxterms

F\_1=π(0,2,3)

* Simpler circuits works faster