1) $f(x,y,z) = xy'z + x'y'z + xyz$

x	y	z	f(x,y,z)	xy'z	x'y'z	xyz
0	0	0	0	0	0	0
0	0	1	1	0	1	0
0	1	0	0	0	0	0
0	1	1	0	0	0	0
1	0	0	0	0	0	0
1	0	1	1	1	0	0
1	1	0	0	0	0	0
1	1	1	1	0	0	1

3)
f
$f(x,y,z) = xy'z + x'y'z + xyz$
$= xy'z + xyz + x'y'z$ (commutative)
$= xz(y'+y) + x'y'z$ (distributive)
$= xz + x'y'z$ (Inverse+identity)
$= z(x + x'y')$ (distributive)
$= z((x + x')(x+y'))$ (distributive AND)
$= z(x+y')$ (Inverse + identity)

4)

x	y	z	F (x,y,z) = z(x+y')	x+y'
0	0	0	0	1
0	0	1	1	1
0	1	0	0	0
0	1	1	0	0
1	0	0	0	1
1	0	1	1	1
1	1	0	0	1
1	1	1	1	1