

Sheet1

Bit 3	Bit 2	Bit 1	Bit 0	output	
0	0	0	0	0	0
0	0	0	0	1	1
0	0	0	1	0	0
0	0	1	1	1	1
0	1	0	0	0	0
0	1	0	1	1	1
0	1	1	0	0	1
0	1	1	1	1	1
1	0	1	0	0	0
1	0	1	1	1	1
1	0	0	0	0	1
1	0	0	1	1	1
1	1	0	0	0	0
1	1	0	1	1	1
1	1	1	0	0	1
1	1	1	1	1	1

	Bit 3 '		Bit 3		0 Bit 0 '
	0	0	0	0	0 Bit 0 '
Bit 1 '	1	1	1	1	1 Bit 0
	1	1	1	1	1 Bit 0
Bit 1	0	1	1	1	1 Bit 0 '
	Bit 2 '	Bit 2	Bit 2	Bit 2 '	

F= Bit0 + Bit2*Bit1 + Bit3*Bit1