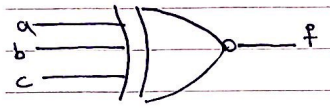
پیش گزارش آزمایش ۴ - مینا بیلی ۹۸۳۱۰۷۵

Subject: سین برکتین ۹۸۳۱۰۷۴

1)



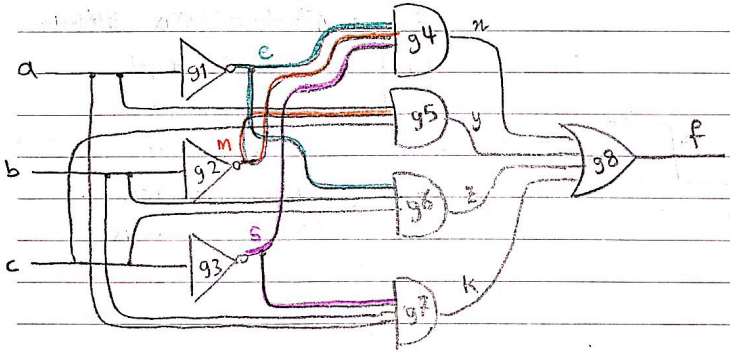
$f = (a \oplus b \oplus c)'$

a	b	c	a⊕b	(a⊕b)⊕c	f
0	0	0	0	0	1
0	0	1	0	1	0
0	1	0	1	1	0
0	1	1	1	0	1
1	0	0	1	1	0
1	0	1	1	0	1
1	1	0	0	0	1
1	1	1	0	1	0

c \ ab	00	01	11	10
0	1	0	1	0
1	0	1	0	1

SoP → $f = a'b'c' + a'bc + abc' + ab'c$

2)



Dotline

Subject:

```
module xnor_circuit( a,b,c, f);
    input a ,b ,c ;
    output f;
    wire e,m,s, x,y,z,k;
    not g1(e,a);
    not g2(m,b);
    not g3(s,c);
    and g4(x,e,m,s);
    and g5(y,m,a,c);
    and g6(z,e,b,c);
    and g7(k,s,a,b);
     or g8(f,x,y,z,k);
endmodule
```

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