Minimize

$$F = ab'c + abc' + abc$$

Solution:

See 9/15/08 notes

Scoring: ~~40~~ pts total

8 points each step

From P31 of the notes:

Write the sum of terms for segment d of the BCD to 7 segment converter   30 points

$$d = w'x'y'z' + w'x'yz' + w'x'yz + wxy'z +$$

$$w'xyz' + wx'y'z' + wx'yz$$

4 points for each correct minterm

2 points for d =

Now imagine adding hex digits to the 7 segment display:

A b C d E F

Write the truth table for the last 6 lines of the Table:

	a	b	c	d	e	f	g
A	1	1	1	0	1	1	1
b	0	0	1	1	1	1	1
C	1	0	0	1	1	1	0
d	0	1	1	1	1	0	1
E	1	0	0	1	1	1	1
F	1	0	0	0	1	1	1

5 points
each line
(30 total