Homework 5; 23.33/50.00 (46.66%)

November 2, 2019

Problem 1 (score: 3.33/10)[1]

(a) NOT ok (SOP is wrong, POS is correct)

(b) NOT ok (what are essential minterms for $A'C$, $A'CD$ or $A'B'C$?)

(c) OK

Problem 2 (score: 10/10)

OK

Problem 3 (score: 10/10)

OK, but why did you draw Carnaugh diagram two times?

Problem 4 (score: 0/10)[2]

(a) NOT ok (ACD' is not prime as it is included in ad'; note that don't-cares are treated as 1s, see p. 140);

(b) NOT ok ($bc'd$ is prime, but not mentioned);

Problem 5 (score: 0/10)[3]

NOT ok (why $(a, b, c, d) = (0, 1, 0, 0)$ yields 0? doesn't it correspond to number 2, which is prime?)

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[1]similar problems: `https://github.com/nailbiter/for/blob/master/formasha/logic_design/makeup_problems4.md#jCxLk21Mxfb4` and `https://github.com/nailbiter/for/blob/master/formasha/logic_design/makeup_problems4.md#kvFjssettkOZ`

[2]similar problems: `https://github.com/nailbiter/for/blob/master/formasha/logic_design/makeup_problems4.md#vyw9bn7r1n63` and `https://github.com/nailbiter/for/blob/master/formasha/logic_design/makeup_problems4.md#e7an6mkz7uwp`

[3]similar problems: `https://github.com/nailbiter/for/blob/master/formasha/logic_design/makeup_problems4.md#a1cvyl07mzea` and `https://github.com/nailbiter/for/blob/master/formasha/logic_design/makeup_problems4.md#ltmwc6eiyah2`