Homework 3; 35.00/70.00 (50.00%)

November 18, 2019

Problem 1 (score: 5/10)[1]

(a) NOT ok; what is the answer: $wy' + yw'x' + zw'x' + zwy$ or $wy' + wz + x'z + w'x'y$ (they are equivalent, but where did you show it)? Also, none of these is equivalent to original expression (try $w = z = 1, x = y = 0$).

(b) OK

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

(a) NOT ok. Expression can be simplified to 2 multiplicands (with 3 and 2 addends respectively);

(b) NOT ok. Expression can be simplified to 4 multiplicands (each one with 3 addends);

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

OK

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

your answer is NOT optimal (hint: you can rewrite function as a sum of three and-expressions, each one with two terms).

[1] similar problems: `https://github.com/nailbiter/for/blob/master/formasha/logic_design/hw2.md#el424k` and `https://github.com/nailbiter/for/blob/master/formasha/logic_design/hw2.md#dcfwv7`

[2] similar problems: `https://github.com/nailbiter/for/blob/master/formasha/logic_design/hw2.md#ammj0g` and `https://github.com/nailbiter/for/blob/master/formasha/logic_design/hw2.md#49kkvy`

[3] similar problems: `https://github.com/nailbiter/for/blob/master/formasha/logic_design/hw2.md#seqrl5` and `https://github.com/nailbiter/for/blob/master/formasha/logic_design/hw2.md#3h4lf5`

[4] similar problems:

Problem 5 (score: 10/10)

OK

Problem 6 (score: 10/10)

OK

Problem 7 (score: 10/10)

OK