

HW2 ECE2060 Spring 2019

Lectures Covered: Lesson5 - Lesson9

Show all relevant steps. Don't just write down the answers.

Late HWs will not be accepted. Turn in the HWs in class. **HWs turned-in anywhere else will not be accepted.**

Show your work on these pages, attach additional pages if necessary.

- Be sure to organize the pages **in order** and **staple** them all together, **otherwise you will lose one point**
- Fill out the following. **You will lose an additional point if you fail to provide these details**

Your Last Name _____ Your First Name _____

Problems start from next page. All the problems will be graded.

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The problem numbers are from your text book (both the 6th and 7th edition will work)

- 1) Problem 5.14 c. Instead of the expression give in the book use $f_3 = rs' + rt + st'$. Use K-Maps to answer this question.

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The problem numbers are from your text book (both the 6th and 7th edition will work)

2) Problem 5.14 f. Use K-Maps. Use $f_6(x, y, z) = M_1M_5$

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The problem numbers are from your text book (both the 6th and 7th edition will work)

3) Problem 5.17. Use $F(A, B, C, D) = A'B' + ABC + A'BD' + AC'D + A'BD + AB'CD'$

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The problem numbers are from your text book (both the 6th and 7th edition will work)

4) Problem 5.24 b. Use K-maps (d represents don't care). Use $\sum m(2, 4, 8) + \sum d(0, 3, 6)$

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The problem numbers are from your text book (both the 6th and 7th edition will work)

- 5) Problem 5.29 a (ignore the part of the problem statement that says "express your answer in both decimal and algebraic notation". Just express your answer as an algebraic expression)
Use $F = ABD + A'B + A'C + CD$