National Chiao Tung University
Dept. of Computer & Information Science
Intro. to Digital Systems, Spring 1998

March 2, 1998
Handout #2
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# Homework #1 (due March 11 in-class)

Problems 1–15 are from M. M. Mano and C. R. Kime, *Logic and Computer Design Fundamentals*, Prentice-Hall, Inc., 1997.

1. Problem 1–7 (page 27).
2. Problem 1–8 (b) and (c) (page 27).
3. Problem 1–10 (page 27). (**Hint:** Compare the numbers of additions and multiplications required.)
4. Problem 1–15 (a) and (b) (page 28).
5. Problem 1–17 (page 28).
6. Problem 1–18 (b) (page 28).
7. Problem 1–20 (page 28).
8. Problem 1–21 (a), (b), (c), and (d) (page 28).
9. Problem 1–22 (a), (b), and (c) (page 28).
10. Problem 1–26 (pages 28–29).
11. Problem 2–2 (c) and (d) (page 92).
12. Problem 2–3 (a) and (c) (page 92).
13. Problem 2–6 (a) and (c) (page 93).
14. Problem 2–7 (a) and (b) (page 93).
15. Problem 2–8 (c) and (d) (page 93).
16. (DIY Problem 1) For this problem, you are asked to design **a relatively simpler problem set** related to Chapters 1–2.2 of the text and give a sample solution to your problem set. Grading on this problem will be based upon the *quality* of the designed problem as well as the *correctness* of your sample solution.
17. (DIY Problem 2) For this problem, you are asked to design **a more advanced problem set** related to Chapters 1–2.2 of the text and give a sample solution to your problem set. Grading on this problem will be based upon the *quality* of the designed problem as well as the *correctness* of your sample solution.