Department of Electrical & Computer Engineering	EC
University of California, Santa Barbara	Fa
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ECE 235 Fall 2010 Shynk H.O. #4

## HOMEWORK #2 (revised)

Due Friday, October 15, 2010 (5:00 p.m.)

**Reading:** Read Chapters 3 and 4

## **Problems:**

- 1. Show that the power set  $\mathcal{P}$  of the finite sample space  $\Omega$  with *n* outcomes has  $2^n$  elements.
- 2. Problem 2.26
- 3. Problem 3.7
- 4. Problem 3.20
- 5. Problem 3.28
- 6. Problem 3.35
- 7. Problem 4.10
- 8. Problem 4.18
- 9. Problem 4.21