## MACM 101 Discrete Mathematics I Date: September 15, 2011 Problem Set 2 (Chapter 1.3 of the text) (Not to be handed in) Practice problems for the in-class quiz 1

- 1. Exercise Problems of sections 1.3
- 2. Problems (pages 24-26) 4, 8, 12, 17, 20, 22, 30
- 3. For any positive integer n show by using the Binomial theorem that

$$\sum_{k=0}^{n} \binom{n}{k} (-1)^k 2^{n-k} = 1$$