Math 330 (Number Systems), Section 3 (Dmytro Savchuk) Spring 2010
Homework assignment 6 (due Monday, March 1)

## Solve the following problems

1. do Project 4.8
2. prove Proposition 4.12,
3. Prove that for $n \geq 0$ the following equality holds

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

Can you think of a simple way to prove this?

