MATH 201 HW 4

due **Feb 11** before class. Staple all your papers. Write carefully, unreadable answers will not receive any credit.

Do the following exercises from Book of Proof:

- [4] 14, 21, 23, 24, 26
- [5] 6, 10, 12, 24, 30

And the following:

1. Using the following
$$\text{premises} \begin{cases} \neg(A \vee B) \Rightarrow C \\ \neg A \\ \neg C, \end{cases}$$
prove B.

If you forgot how to write a logic proof, see the lecture notes on website.

Hint: [4] 23: Recall that $\binom{n}{k}$ counts the subsets of size k from a set of size n. And use complement.