**5 Math exercises:**

1. Represent implication as a combination of not, or.

2. Analyze these expressions:

a. A cat is black.

b. A cat is white.

c. A cat is not black.

d. A cat is not white.

3. Prove the following by induction:

a.

b.

c.

4. I have 2 apples and 3 pears. In how many ways can I choose one apple and one pair? In how many ways can I choose 1 apple or 1 pair?

5. Calculate the number of all the lines linking each pair of n points.

6. Why do you personally need math?

7. Prepare to the Mid-Term Exam by revising everything you studied this semester.

**Deadline: 29.10.2014**