

## Math 2001: Homework P10

**Due: November 13, 2013**

1. From the book do problems:

(a) 4.5: 4, 6, 10, 12

(b) 2.3: 2, 4, 5

(c) 5.1: 4, 15, 17

2. Prove that in any group of 6 people there are always at least 3 people who either all know one-another or all are strangers to one-another.

Hint: Think pigeonhole principle.