Functions (Section 2.3) Part 2 CS-24, Dr. Ostheimer

1. Learning objectives

- to get to know each other and start setting up study partners;
- to practice reading the dense mathematical texts;
- to learn the concepts in Section 2.3.

2. Resources

You will need your index cards with the definitions of function, one-to-one, onto and one-to-one correspondence. You will also need your Functions Part 1 group work.

3. Your Questions

- (1) In order for a relation R to be a function, which of the pretend characteristics must it have? For example, must it be tall, dark and handsome?
- (2) In order for a relation R to be a one-to-one function, what characteristics must it have?
- (3) In order for a relation R to be an onto function, what characteristics must it have?
- (4) In order for a relation R to be a one-to-one correspondence, what characteristics must it have?
- (5) For each of the relations R_1, \ldots, R_5 :
 - Is it a function?
 - If it is a function:
 - Is it one-to-one?
 - Is it onto?
 - Is it a one-to-one correspondence?