

# Name of the course

## Exercise sheet 10

These exercises, in particular Exercise 10.1 (a), are very easy.

**Exercise 10.1** Let  $f(x) = x^2$ .

(a) Find all solutions to  $f(x) = 1$ .

Let  $g(x) = x$ .

(b) Find all solutions to  $f(x) = g(x)$ .

(c) Find all solutions to  $f(x) = xg(x)$ .

**Solution 10.1**

(a)  $x = \pm 1$ .

(b)  $x = 0$  and  $x = 1$ .

(c)  $x \in \mathbb{R}$ .