#### HOMEWORK 1

## TEMPLATE MATH 2001

#### SEBASTIAN CASALAINA

ABSTRACT. This is the first homework assignment. The problems are from Hammack [Ham13, Ch. 1, §1.1]:

• Chapter 1 Exercises: Section 1.1: 2, 8, 18, 30, 38, 40.

### Section 1.1

**Problem 2.** Write the following set by listing its elements between braces:  $\{3x + 2 : x \in \mathbb{Z}\}$ .<sup>1</sup>

 $\leftarrow 1$ 

Solution to Problem 2.

$$\{3x+2: x \in \mathbb{Z}\} = \{\dots, -7, -4, -1, 2, 5, 8\dots\}$$

Date: January 12, 2016.

I would like to take this opportunity to thank my class for their support.

<sup>&</sup>lt;sup>1</sup>I worked on this problem with the entire class. You are encouraged to work together on homework assignments. However, for each problem you must write your own solution, you must indicate with whom you worked, and you must cite any resources you used in solving the problem.

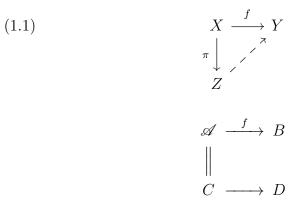
#### CASALAINA

Some examples that might be useful

## **Theorem A.** The theorem

# 1. The first section

[AM69]



This is the full version

#### HOMEWORK 1

#### References

- [AM69] M. F. Atiyah and I. G. Macdonald, Introduction to commutative algebra, Addison-Wesley Publishing Co., Reading, Mass.-London-Don Mills, Ont., 1969. MR 0242802 (39 #4129)
- [Ham13] Richard Hammack, Book of proof, Creative Commons, 2013.

UNIVERSITY OF COLORADO, DEPARTMENT OF MATHEMATICS, CAMPUS BOX 395, BOULDER, CO 80309-0395

 $E\text{-}mail\ address: \texttt{casa@math.colorado.edu}$