

**INFORMATION THEORY**

University of Amsterdam, 2017

NAME: Your name

STUDENT NR: Your student number

# Homework set 1

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**Question 1**

Your solution here

**Question 5**

Your solution here

### Question $\infty$

Here are some macros for you that might be helpful when writing out your solutions to the problems.

- Different fonts:  $\mathcal{X}$ ,  $\mathbb{E}$ ,  $\mathbb{R}$ , abc
- Binomial:  $\binom{n}{k}$
- Set symbols:  $\cap, \cup, \bigcap_{i=1}^n, \setminus, \overline{A}$

Entropy diagram for two variables:

