Modern Cryptography
University of Amsterdam, 2018
Team Name: Your team name
Student Names: Your names

Homework set 1

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

- Different fonts: $\mathcal{X}$, $\mathbb{E}$, $\mathbb{R}$, $\mathtt{abc}$
- Encryption protocol: $\Pi^{\mathrm{OTP}} := (\mathsf{Gen}, \mathsf{Enc}, \mathsf{Dec})$. The key generation algorithm Gen picks a uniformly random key $k \xleftarrow{\$} \{0,1\}^n$ and the encryption algorithm works as follows $\mathsf{Enc}_k(m) := m \oplus k$, where $\oplus$ is the bitwise addition.