## **Solutions 2nd Homework Networking**

## Problem 3:

If  $[1\ 0\ 0\ 0\ 1\ 1\ 0\ 1\ 1\ 0\ 1\ 1\ 0]$  is received, we multiply with H and obtain (0 0 0 1). If we look through the columns of H, we see that this corresponds to the last column of H. We therefore flip the corresponding bit  $[1\ 0\ 0\ 0\ 1\ 1\ 0\ 1\ 1\ 1\ 1\ 1\ 1]$  and assume that the message 10001101110 was sent.