

# 编码 1020 作业

October 2022

## 1 第一题

4,4

## 2 第二题

4.14

(1)

$$1101 + 1110 = 0011$$

$\therefore 0011$  is not in  $C$

$\therefore C$  is not a linear code.

(2)

$\therefore R(C) < 4$  so the codes in  $C$  is linear dependent.

$\therefore C$  is a linear code.

(3)

$\therefore R(C) < 5$  so the codes in  $C$  is linear dependent.

$\therefore C$  is a linear code.