

# CS770: Assignment 4

Ronghao Yang

ID: 20511820

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## 1 Question 1

### 1.1 Question 1a

$$\begin{cases} x_1 = 2r + s - t \\ x_2 = r \\ x_3 = -2s + 2t \\ x_4 = s \\ x_5 = t \end{cases}$$

### 1.2 Question 1b

## 2 Question 2

## 3 Question 3

### 3.1 Question 3a

### 3.2 Question 3b

## 4 Question 4

## 5 Question 5

### 5.1 Question 5a

### 5.2 Question 5b

## 6 Question 6

## 7 Question 7