

# Math for CS 2015/2019 Final Exam solutions

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## 1 Problem 1

*Proof.* □

## 2 Problem 2

### 2.1 (a)

*Proof.* □

### 2.2 (b)

*Proof.* □

### 3 Problem 3

#### 3.1 (a)

*Proof.*



#### 3.2 (b)

*Proof.*



#### 3.3 (c)

*Proof.*



#### 3.4 (d)

*Proof.*

