

# Problem Set 8

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## 1 Problem 1

### 1.1 Part a

It follows from the definition that  $\|f\|_\infty = 0 \iff f = 0$  almost everywhere, and if  $\|f\|$

### 1.2 Part b

### 1.3 Part c

## 2 Problem 2

## 3 Problem 3

## 4 Problem 4

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