Problem Set 8

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November 20, 2019

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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,

1.2 Part b

1.3 Part c

2 Problem 2

3 Problem 3

4 Problem 4

5 Problem 5

6 Problem 6