

# MA 519: Homework 5

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### Problem 5.1

*Solution.*



## Problem 5.2

*Solution.*



### Problem 5.3

*Solution.*



**Problem 5.4**

*Solution.*



### Problem 5.5

*Solution.*



### Problem 5.6

*Solution.*





### Problem 5.7

*Solution.*



### Problem 5.8

*Solution.*



### Problem 5.9

*Solution.*



**Problem 5.10**

*Solution.*



**Problem 5.11**

*Solution.*



**Problem 5.12**

*Solution.*



### Problem 5.13

*Solution.*



**Problem 5.14**

*Solution.*





### Problem 5.15

*Solution.*



**Problem 5.16**

*Solution.*



**Problem 5.17**

*Solution.*

