

# MA571 Problem Set 8

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**PROBLEM 8.1**

*Proof.*



**PROBLEM 8.2**

*Proof.*



**PROBLEM 8.3**

*Proof.*



**PROBLEM 8.4**

*Proof.*



**PROBLEM 8.5**

*Proof.*



**PROBLEM 8.6**

*Proof.*





**PROBLEM 8.7**

*Proof.*



**PROBLEM 8.8**

*Proof.*

