

## Problem Set 5

**All parts are due Tuesday, November 24, 2015 at 11:59PM.**

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**Name:** Your Name

**Collaborators:** Name1, Name2

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### Part A

**Problem 5-1.**

**Problem 5-2.**

### Part B

**Problem 5-3.**

**(a) Proof of Claim 1.** *Your proof here.*

**Proof of Claim 2.** *Your proof here.*

**(b)** *You may use the graph template that we provide, which may require installing tikz package. The figure may show up on the next page if there is not enough space below.*

**(c)**

**(d)** *Submit your implemented python script.*

