This assignment is to create an outline for your final paper. Note that this is not a rough draft, and should not contain more than 1-2 descriptive sentences in each section or subsection. Your goal should be to convey the broad strokes of what you want to accomplish with your paper via title, section/subsection headers, and brief descriptions. (Of course, you are encouraged and welcome to start working on your rough draft on your own, just not as part of this assignment.)

**Content.** Your outline should include the following items.

1. Title
2. Your name as author
3. Section headers, with first section called Introduction or Overview.
4. Subsection headers
5. 1-2 sentences in each section and subsection describing your goals for that section.
6. Bibliography

Keep in mind that your final paper should be only 5-8 pages, so plan your outline and scope carefully with this in mind!

**Formatting.** Your outline should be formatted using latex (for example see the template provided on my website). In particular make sure you adhere to the following.

1. Use the document class amsart.
2. Use 12 point font.
3. Make sure the numbering for all your theorems/corollaries/lemmas/etc is consistent. To achieve this use `\numberwithin{theorem}{section}` in your preamble, and define `\newtheorem{lemma}{theorem}{Lemma}` (with lemma/Lemma replaces by corollary/Corollary, etc as needed) for each type of theorem style environment.
4. Make sure you have a complete bibliography using either bibtex or the format provided in the template.