

Grading Rubric for Final Paper (Final Submission)

Note on plagiarism: Definitions and theorems may be copied word-for-word. You may follow the same proof or computation structure as your sources, but your proof and computation should be explained in greater details. No credit will be given for papers that do not pass **SafeAssign (Plagiarism Detection)**.

1. (5 points) Cover letter

A cover letter has been submitted and includes responses to all or the vast majority of the prompts	0	1	2	3	4	5
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2. (10 points) Abstract

The abstract gives the reader a complete idea of the main ideas and/or results of the paper. (A little background/history is optional.)	0	1	2	3	4	5
The abstract gives the reader a clear idea of the main ideas and/or results of the paper. The language of the abstract is efficient. <i>No</i> citations or references are included.	0	1	2	3	4	5

3. (10 points) Introduction

The introduction begins with enough historical background and/or a literature review to put the paper into context. All the historical background should be relevant to the content of the paper.	0	1	2	3	4	5
The introduction includes a presentation of the main ideas and/or results of the paper. If appropriate, the main results are presented as LaTeX theorems. Definitions and notations are introduced only as needed to make the main ideas and/or results understandable to the reader.						
The introduction concludes with a paragraph describing the organization of the rest of the paper. The “paper outline” paragraph of the introduction uses LaTeX section labels to describe the layout and content of the rest of the paper.	0	1	2	3	4	5

4. (20 points) Content sections

The content sections are the correct length (at least five full pages)						
The content sections contain at least two full pages of mathematical arguments (rigorous proofs or otherwise) or computations						
The content sections begin with sufficient mathematical background and exposition (definitions, theorems, lemmas, corollaries, remarks, examples, applications, etc.) to prepare the reader for the main content of the paper.	0	1	2	3	4	5
The background from the earlier content sections is appropriately and meaningfully referred back to throughout the later main content sections (e.g. referring back to an earlier definition).	0	1	2	3	4	5
The content sections (and subsections if used) are appropriately titled. The (sub)section titles are concise and give the reader an idea of what the (sub)section is about.	0	1	2	3	4	5
Each definition, lemma, remark, and theorems is introduced within the text by a complete sentence that precedes the statement.	0	1	2	3	4	5

5. (10 points) Citations and reference section

Two to four references are used nontrivially throughout the paper.						
References are used meaningfully throughout the entire paper.	0	1	2	3	4	5
References are formatted correctly throughout the entire paper.						
A citation is needed whenever you use ideas from these references. The sentence structures and ideas themselves must be rephrased in your own words (as opposed to quoted).						
The BIB file for references is correctly formatted.	0	1	2	3	4	5
At least two of the sources are published (e.g. a peer-reviewed article published in a journal or a textbook).						

6. (10 points) LaTeX

Two to four references are used nontrivially throughout the paper.						
The L ^A T _E X typesetting is free of errors and uses correct L ^A T _E X symbols, notation, and structures.	0	1	2	3	4	5
Displayed math mode is used sparingly. Most mathematical notation is incorporated into the text using regular math mode.						
Definitions, theorems, figures, (sub)sections, equations, etc. are correctly formatted (e.g. <code>\begin{definition}</code>).	0	1	2	3	4	5
Definitions, theorems, figures, (sub)sections, equations, etc. are correctly labeled for future reference using <code>\label{YOURLABEL}</code> and correctly referred back to (e.g. <code>Definition ~ \ref{YOURLABEL}</code>).						

7. (15 points) Mathematics

The mathematics presented in this paper is sufficiently advanced (college level mathematics).	0	1	2	3	4	5
The mathematical definitions, concepts, and statements presented in the paper is correct.	0	1	2	3	4	5
The mathematical explanation or computation presented in the paper is correct.						
The mathematics is presented clearly and efficiently.	0	1	2	3	4	5

8. (15 points) Written communication

The document is well-organized and the ideas presented are all clearly connected to each other. The ideas are presented logically and coherently throughout the document.	0	1	2	3	4	5
The transitions between and within paragraphs are highly effective. The transitions between sections are highly effective. The entire paper flows well.	0	1	2	3	4	5
There are no or very few issues with spelling, grammar, punctuation, and syntax.	0	1	2	3	4	5
There are no or very few issues with tone (formal), audience (a peer with minimal knowledge of your topic), and point of view (“we”, not “I” or “you”).						

Grading

Question:	1	2	3	4	5	6	7	8	Total
Points:	5	10	10	20	10	10	15	15	95
Score:									