

First Polished Work Assignment

What is assigned. The first polished work assignment will be due 10/7/16. Each student is to submit solutions to a total of six star-problems. The first four are required to be problems 1.2.28, 2.1.20, 2.3.13, and 3.1.34. In addition, each student is to submit polished solutions to two other star-problems of his or her choice.

This work is to be your own. You may discuss the mathematical ideas with me or with other students, but you should write your solutions by yourself. Do not work cooperatively on the writing part of the assignment. Do not copy solutions from the work of other students or from any other source.

Format requirements. Solutions may be produced using word-processing software or **neatly** by hand, though word-processed solutions are preferred. Each problem should begin on its own sheet of paper. At the top of the page identify what problem is being solved and include your name. The problem identifier should be in a format like 1.2.28, indicating chapter, section, and problem number. Leave a wide left margin where I can make comments.

Solutions should have the same appearance as the model solutions that have been provided. In particular, the writing should follow the usual conventions for prose. Each solution should appear as a connected narrative presented in complete sentences with normal paragraph formatting. A consistent left margin should be maintained; normal rules of punctuation and grammar should be followed. The only exception to the rule of a consistent left margin is that a mathematical expression or equation can be displayed centered on a line by itself. Generally, the equation should not include any annotations or explanatory text – that information should appear in the running text. You can optionally provide an equation number at the far right side of the line, if you will refer to the displayed equation by number later in the proof. You can also include graphics or tables if you wish. These should also be centered, and may include a caption. The running text should explain to the reader what the figure or table represents.

Please treat this assignment as an exercise in formal professional mathematical writing. Do not use slang, colloquialisms, abbreviations, or cryptic symbols (such as arrows).

Use comments I made in grading the first draft of each problem. If you do not understand something I wrote about one of your star problems the first time it was graded, please ask me to explain it. Your polished work is supposed to be a high quality finished product, both mathematically correct and also expressed with clear and well organized writing. The comments I wrote when I graded the first drafts of the star problems are supposed to point out errors in reasoning and also to suggest editorial changes.

Assessment. Each problem will be assigned two scores on a 100 point scale – one for mathematical correctness, the other for mathematical writing.