- **DO NOT open the exam booklet until you are told to begin. You should write your name and section number at the top and read the instructions.**

- Organize your work, in a reasonably neat and coherent way, in the space provided. If you wish for something to not be graded, please strike it out neatly. I will grade only work on the exam paper, unless you clearly indicate your desire for me to grade work on additional pages.

- You may use any results from class, homework or the text, but you must cite the result you are using. You must prove everything else.

- You needn't spend your time rewriting definitions or axioms on the exam.

- You may use the text, my class notes and/or any notes and study guides you have created. You may use a calculator. You may not use a cell phone or computer.

- When you have completed your test, hand it to me and go have a great weekend!

- There is a single bonus problem at the end of the test. It would be best to work first on the main test as this problem is only worth 5 points and will be graded strictly.

Problem	Points	Score
1	10	
2	18	
3	18	
4	0	
Total:	46	

1. (10 points) This is a 10 point question. I can change the number of points in the square brackets and it will add up automatically for me.

2. This is a question with parts. I can set the amount of points for each part and it will add them together to put on the front page.

   (a) (5 points) part one

   (b) (8 points) another part

   (c) (5 points) I put vfills in between questions to fill the space. They will automatically take up all the space and divide it evenly between all the vfills. Don't forget to put on at the end of the page!

3. (18 points) Every time you start a new page, you need to tell it to add points. I don't know why.

4. (5 points (bonus)) This is a bonus question. It has points but they are not added on the cover page.