

Course Project

The primary theme of this project is to break the “teacher-student” structure and have you investigate written mathematics without the help of an authority. However, you are encouraged to work with your peers in this class. The pertinent material is in Sections 5.3, and 5.4 of the textbook. You will demonstrate your understanding of the material by submitting a selection of problems from these two sections. You get to select and do your own problems subject to the following rules.

Rules:

1. Each problem has an assigned point value of 6 through 10.
2. Do up to seven problems having a total assigned point value of up to and including 50 points
3. To get a total of exactly 50 points, you may designate one problem as having a point value less than the assigned value.
4. You must work at least one problem from each section.
5. I expect you to work with the other students in this class. In doing so, you should share ideas and work out details but write your own final version without further consultation.
6. You may not consult with any animate source other than peers in this class.
7. You must use a proper reference for any any idea you obtain from an inanimate source.
8. The project is due by Wednesday, December 12 at 4:00 P.M. (Just before the final).
9. You may only use concepts developed in previous sections of the textbook.

Note: For Section 5.3 #14, the value is 10 for the problem as written and 7 if you use $2x^2 \sin(1/x) + x$ instead of $x^2 \sin(1/x) + x$.

Problem	Assigned Value	Chosen Value
Section 5.3 #1	6	
Section 5.3 #2	0	
Section 5.3 #3	6	
Section 5.3 #4	8	
Section 5.3 #5	6	
Section 5.3 #6	6	
Section 5.3 #7	8	
Section 5.3 #8	6	
Section 5.3 #9	6	

Problem	Assigned Value	Chosen Value
Section 5.3 #10	7	
Section 5.3 #11	10	
Section 5.3 #12	6	
Section 5.3 #13	6	
Section 5.3 #14	7 or 10	
Section 5.3 #15	0	
Section 5.3 #16	0	
Section 5.4 #1	6	
Section 5.4 #5	10	