

Faculty of Mathematics
University of Waterloo
AMATH 231 - Calculus 4
Final Exam - Winter Term 2022

Time: 12:30pm-1:50pm. Plus: 40min for uploading, i.e., final deadline: 2:30pm.

Date: April 8, 2022.

Important:

(A) The solutions need to be handwritten on paper. Each page needs to be uploaded to Crowdmark twice, once plain (same as for homework), and once as a selfie with your Watcard. Example pictures are linked to on the course's home page, where the midterm is described.

(B) You are allowed to use textbooks and to Google things for this exam. You are not allowed to communicate with others during the exam. Except, you can communicate with the instructor via email if a question is unclear.

(C) In some of the following problems you are asked to give nontrivial examples. These examples must be examples that you yourself come up with. This means, that your examples cannot be examples from textbooks and exercises or any other source that is not you. There is no need to make the examples very complicated. But the examples must be nontrivial enough so that it's unlikely that anybody else chooses that example. Points can be deducted for making the examples too simple.

(D) I am very sorry to have to say this, and of course this concern doesn't apply to most of you, but plagiarism is a very serious matter because exams absolutely have to be fair for all. Therefore, I have to tell you that when a case of plagiarism is found, then I really have no choice. As a prof, I am obliged to report each and every case to the Associate Dean. Folks, please spare me having to do that! In cases where plagiarism is only suspected but not clear, the involved students may have to do an oral exam online.

(E) Your answers must be stated in a clear and logical form in order to receive full marks. For clarity, you may add a few extra words here and there to indicate what you do.