

Sunday, April 25

The tutorial tomorrow at 2:00PM will be in Burnside Hall 708.

Tuesday, April 20

1. Answers to assnmt 9 are posted.
2. The tutorial tomorrow will be in Burnside Hall Room 1234.

Wednesday, April 14

1. Tutorials will be given on Wednesday, April 21 and Monday, April 26, both starting at 2:00PM. The rooms will be fixed later; they will be in Burnside Hall; come to my office (927) first, where the room will be posted.
2. No calculators will be allowed on the final: I eliminated all calculations that would need a calculator.

Tuesday, April 13

Answers to assnmt 8 are posted

Sunday, April 11

A set of notes concerning the adjoint and normal operators has been posted.

Friday, April 9

Answers to assignment 7 are posted.

Tuesday, April 6

The midterm exam's questions, and answers to them, are posted.

The midterm average grade is 59.35%.

Thursday, April 1

Assignment 9 is posted.

Tuesday, March 30

Yesterday, after class, I briefly heard that there were difficulties in assnmt 8, problem [2], with the last, 4×4 , matrix, when trying to do part 5) of the problem.

Follow the recipe, and calculate the “basic matrix”, boldface \mathbf{x} , whose columns,

X_1, X_2, X_3, X_4 , form a basic system of solutions of the system $\dot{X} = A \cdot X$. You will notice that the columns come in pairs of complex conjugates: $X_3 = \bar{X}_1$, $X_4 = \bar{X}_2$. (This is very natural if you take into account that column 1 and column 3 correspond to conjugate eigenvalues, and similarly for 2 and 4.) Therefore, to make the sum $X = \mathbf{x} \cdot C = c_1 \cdot X_1 + c_2 \cdot X_2 + c_3 \cdot X_3 + c_4 \cdot X_4$ into a *real* vector, all you need is to choose $c_3 = \bar{c}_1$, $c_4 = \bar{c}_2$. After this, you should work the way we did in the diagonalizable case, in the presence of complex eigenvalues.

Monday, March 29

1. In assnmt 8, in the last problem, problem [3], misprints in the statement of the differential equation have been corrected.
2. New posting: “An example for a Fourier series”.

Wednesday, March 23 (later)

Assignment 8 is posted.

Wednesday, March 23

A misprint on page 7 of in yesterday's posting, in the formula for \tilde{N} , has been corrected (the term $-\hat{N}$ should not be there).

Two other small misprints are also corrected.

Tuesday, March 22

I have posted some notes (a "text") in preparation for assignment 8. The assignment proper will follow soon.

Wednesday, March 10

Assignment 7 is posted.

Monday, March 8

Answers to assignment 6 are posted

Tuesday, March 2

1. Answers to assignment 5 are posted.
2. Concerning the midterm exam on March 11: it will be based on assignments 1 to 6. Answers to assignment 6 will be posted soon after the due-date, Thursday, March 4th.
3. As discussed in class on Monday, March 1st, I will be out of town on Wednesday, March 17th and Friday, March 19th, and the classes on those days have to be cancelled. I would like to re-schedule those two classes on Fridays, in the times and place of the scheduled office hour: 1:30 to 2:30 in Burnside Hall 708. Therefore:

classes on Wednesday, March 17th and Friday, March 19th: cancelled;
and instead,

*regular classes **scheduled** on
Friday, March 5, and Friday, March 12, 1:30-2:30PM
in Burnside Hall 708.*

Some people may not be able to attend the newly scheduled classes, although there seemed to be an agreement to these dates in class yesterday. Upon request, I will schedule additional classes in which I will repeat the material treated in the newly scheduled classes. *The material in the newly scheduled classes will not be included in the midterm exam.*

Monday, March 1

There are some small changes to assnmt 6. Please copy the new version (posted).

The main addition is in [3] 2) where I now explain the probably obvious, namely that the chain rule for the second derivative is to be proved using the (usual) chain rule for the first derivative.

Friday, February 19 (later)

Answers to assignment 4 are posted. Assignment 5 will come only later ... (sorry!)

Friday, February 19

Assignment 6 is posted

Wednesday, February 17

Another correction to assnmt 5: in [3], $q_1(X)$ is changed: *see the corrected posting.*

(The last two coefficients failed to have been multiplied by 2 from the corresponding matrix entries. Of course, the example was “wrong” only in the sense that the eigenvalues were too difficult.)

Monday, February 15

Correction to problem [1] in assnmt 5: see the changed $q(X)$ now posted.

(This was a bad case of wrong copy of a correct example.)

((The calculations were done/redone by the computer. If it is still wrong (!?!), then I cannot copy a thing over!))

Friday, February 12

Assignment 5 is posted

Tuesday, February 9

Answers to assnmt 3 are posted

Wednesday, February 3

We have a *room change* for the course: the new class room is:

MAASS 328 (on MWF 1135-1225).

This is the Otto Maass building (Chemistry; near Sherbrooke Street; entrance from the campus).

Effective: now!: *Friday, February 5.*

(When I was in the class today, I did not know this as a fact...)

Tuesday, February 2

Assignment 4 is posted

Monday, February 1

Answers to assignment 2 are posted

Wednesday, January 27

Please note:

Please note that the midterm exam for MATH 247 has been booked on Thursday March 11, 2010 1805-2055 in BURN 1B24. You are priority#3.

Please see the list of courses below with the higher priority:

#1 – COMP 202

#2 – BIOL 313

There were no rooms available on March 9 or 10th.

Thursday, January 21

Assignment 3 is posted

Wednesday, January 20

A correction to assnmt 2: in the last line of §3 before “Can you prove this?” replace (and I have already replaced ...) C by C'' twice.

Monday, January 18

1. There is (was) a typo in assnmt 2, problem [4]: the reference in the hint should be §4, not §3.
2. There is a **new office “hour”** added (mainly because of another class): **Tuesday 1:00-2:30.**

Thursday, January 14

Assignment 2 is posted

Wednesday, January 6

The info sheet is posted.

Assignment 1 is posted.

Office hours: MWF 1:00-2:30PM