Welcome to MAT136 LEC0501 (Assaf)

COURSE EVALUATIONS!!!!!!

`http://uoft.me/openevals`

Review Session

Assaf Bar-Natan

"You vitriolic, patriotic, slam fight, bright light
Feeling pretty psyched
It's the end of the world as we know it
It's the end of the world as we know it
It's the end of the world as we know it and I feel fine"

–"It's the End of the World as we Know it", R.E.M

April 3, 2020

Today's Plan

Here's what we will do today. For every unit, you will:

- Pick a TopHat question or textbook question that you found challenging or informative
- Identify the goals and ideas behind that question
- Share where this goal fits in the bigger picture
- Add it to the communal concept map: `https://witeboard.com/8e0615c0-7548-11ea-afcf-8f5dcb39ca2d`
- Then I will do the same.

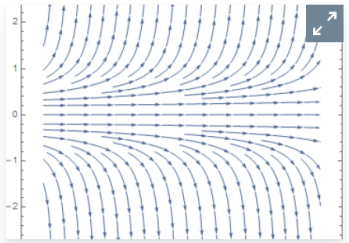
We will do this for units $3, 4, 5, 6$, as these are the units that were not covered in the midterm (YOU STILL NEED TO STUDY THEM)

Unit 3 – Differential Equations

- Pick a TopHat question or textbook question that you found challenging or informative
- Identify the goals and ideas behind that question
- Share where this goal fits in the bigger picture
- Add it to the communal concept map: `https://witeboard.com/8e0615c0-7548-11ea-afcf-8f5dcb39ca2d`

Submissions Closed

Below is pictured the slope field for some differential equation. For the initial condition $y(1) = c$, will Euler's method give an over- or an under-estimate when trying to estimate $y(2)$?



✓ **27%** Answered Correctly

Correct Order

1	$c = 0$	→	A The estimate matches the solution	66
2	$c = 1$	→	B Underestimate	58
3	$c = -1$	→	E Overestimate	47

February 11 at 11:59 PM results

Condense Text

118/118 answered

Ask Again

Open | Closed | Responses | Correct

100%

Unit 4 – Slicing

- Pick a TopHat question or textbook question that you found challenging or informative
- Identify the goals and ideas behind that question
- Share where this goal fits in the bigger picture
- Add it to the communal concept map: `https://witeboard.com/8e0615c0-7548-11ea-afcf-8f5dcb39ca2d`

Submissions Closed

True or False: A different city, Montrealville, occupies a region in the xy-plane, with population density $\delta(y) = 1 + y$. To set up an integral representing the total population in the city, we should slice the region into...

✓ **55%** Answered Correctly

A	Pieces that run parallel to the x axis	96
B	Annuli around a center point	16
C	Pieces that run parallel to the y axis	54
D	Depends on the shape of Montrealville	7

Invalid date | Segment Results | Compare with session | Show percentages | Hide Graph | Condense Text

173/173 answered | Ask Again

Open | Closed | Responses | Correct | 88%

Unit 5 – Sequences and Series

- Pick a TopHat question or textbook question that you found challenging or informative
- Identify the goals and ideas behind that question
- Share where this goal fits in the bigger picture
- Add it to the communal concept map: `https://witeboard.com/8e0615c0-7548-11ea-afcf-8f5dcb39ca2d`

Submissions Closed

True / False: Since $\lim_{n\to\infty} 1/n = 0$, $\sum_{n=1}^{\infty} 1/n$ converges.

✓ **20%** Answered Correctly

A	True, and I am very certain	41
B	True, but I am not very certain	47
C	False, but I am not very certain	18
D	False, and I am very certain	26

Invalid date | Segment Results | Compare with session | Show percentages | Hide Graph | Condense Text

132/132 answered | Ask Again

Open | Closed | Responses | Correct | 100%

Unit 6 – Taylor Series & Taylor Polynomials

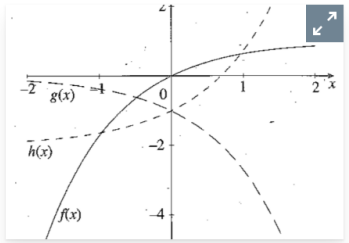
- Pick a TopHat question or textbook question that you found challenging or informative
- Identify the goals and ideas behind that question
- Share where this goal fits in the bigger picture
- Add it to the communal concept map: `https://witeboard.com/8e0615c0-7548-11ea-afcf-8f5dcb39ca2d`

Submissions Closed

The graphs of 3 functions are shown below. For which functions is

$$-1 + 0.3x - 0.1x^2 + 0.08x^3 + \cdots$$

the Taylor series around $x = 0$?



A f(x)

B g(x)

C h(x)

D it could be more than one of these functions

E it cannot be any of these functioons

127/127 answered

Ask Again

Open | Closed | Responses | Correct

100%

Resource Reminder

In addition to everything on the main site:

- Lec. 16 Study Tips TopHat Discussion
- Your groups from lecture
- Assaf will post a list of **ALL** course learning objectives together
- Old TopHat questions

Plans for the Future

For next time:

There is no next time. I'm going to miss you. I only wish I could have said goodbye in person