MAT201 ADVANCED CALCULUS

Your progress ❓

📢 Announcements

3 SEPTEMBER - 9 SEPTEMBER

📄 Syllabus ☐

❓ MAT201 Tutorial Registration ☐

10 SEPTEMBER - 16 SEPTEMBER

📕 Lecture 1 (updated) ☐

Minor corrections

Line 3 of the solution of Example 6.8.7: should be sin pi instead of sin 0.

Line 1 of the solution of Example 6.8.10: the sign of the two infinity should be intercahanged.

📕 Lecture 2 ☐

17 SEPTEMBER - 23 SEPTEMBER

📕 Lecture 3 ☐

📕 Lecture 4 ☐

Very minor typo: k should be n in the solution of Example 11.1.2.

📕 Problem Set 1 ☐

📕 Lecture 5 ☐

24 SEPTEMBER - 30 SEPTEMBER

📕 Problem Set 1 Solution ☐

Restricted Available from **29 September 2018**

📕 Lecture 6 ☐

In Definition 11.1.21, add the sentence

"It is monotonic iff it is either increasing or decreasing."

In Example 11.1.25, it should be 3/(n+6) < 3/(n+5).

📕 Lecture 7 ☐

Minor correction: In the solution (a) of Example 11.1.30, a few symbols for "greater than" are changed to the symbols for "greater than or equal to".

📕 Lecture 8 ☐

Correction: The geometric series before Definition 11.2.1 should sum to 1, instead of 2. This is because a=1/2 (instead of a=1).

📕 Problem Set 2 ☐

Problem 5(c): x should be n.

1 OCTOBER - 7 OCTOBER

📕 Lecture 9 ☐

Minor changes to Example 11.2.120 are highlighted in the updated version.

📕 Lecture 10 ☐

📕 Problem Set 3 ☐

📕 Lecture 11 ☐

page 4 line 7: The lower bound of the improper integral next to 1/[2(11)^2] should be 11, instead of 10.

8 OCTOBER - 14 OCTOBER

✅ Optional Assessment for Enrichment 1 ☐

Restricted Available from **1 January 2003**

📕 Lecture 12 ☐

📕 Lecture 13 ☐

📕 Lecture 14 ☐

📕 Solution to Problem Set 3 ☐

Restricted Available from **12 October 2018, 12:00 PM**

📕 Problem Set 4 ☐

Restricted Available until **8 October 2018, 5:00 PM**

📕 Solution to Problem Set 2 ☐

Restricted Available from **6 October 2018**

The solution to Problem 3(b) is now corrected and slightly improved.

Minor correction to solution of Problem 6(b). The correction is boxed.

15 OCTOBER - 21 OCTOBER

📕 Lecture 15 ☐

📕 Lecture 16 ☐

📕 Problem Set 5 ☐

In Problem 3(b), the lower bound for n should be 2, instead of 1 to avoid dividing by ln 1=0.

📕 Solution to Problem Set 4 ☐

Restricted Available from **19 October 2018, 12:00 PM**

📕 Lecture 17 ☐

22 OCTOBER - 28 OCTOBER

📕 Lecture 18 ☐

📕 Lecture 19 ☐

📕 Solution to Problem Set 5 ☐

Restricted Available from **26 October 2018, 12:00 PM**

📕 Lecture 20 ☐

📕 Problem Set 6 ☐

📕 Solution to Problem Set 6 ☐

Restricted Available from **2 November 2018, 12:00 PM**

✅ Optional Assessment 2 ☐

Restricted Available from **18 October 2018, 1:00 PM**

📕 Test 1 Solution ☐

29 OCTOBER - 4 NOVEMBER

📕 Lecture 21 ☐

In Lecture 21 on 29/10/2018, the topic that will be covered is the **functions of several variables**.

Hi guys. You can also view on how to plot the level curves in this video: https://www.youtube.com/watch?v=uaHiAxFESc4

📕 Lecture 22 ☐

In Lecture 22 on 30/10/2018, the topic that will be covered is the **limit and continuity for functions of several variables**.

📕 Lecture 23 ☐

In Lecture 23 on 2/11/2018, we will have a lecture on **partial derivatives.**

5 NOVEMBER - 11 NOVEMBER

12 NOVEMBER - 18 NOVEMBER

📕 Lecture 24 ☐

Tangent Planes and Linear Approximation!

📕 Lecture 25 ☐

It is "Tewesday": Total differentials and chain rule.

Updated: I have inserted the proof to Chain Rule for the first case.

📕 Problem Set 7 ☐

For tutorials on 19-23 November 2018

📕 Solution to Problem Set 7 ☐

19 NOVEMBER - 25 NOVEMBER

📕 Lecture 26 ☐

Lecture 26. Implicit. Differentiation.

📕 Lecture 27 ☐

Directional Derivatives and Gradient Vector

📕 Problem Set 8 ☐

Please make correction on question no. 5. The function as you can see include the natural number e. There seems to be an abundant y after e^3. The correct one will be e^(3y) and no extra y athe back.

📕 Solution for Problem Set 8 ☐

26 NOVEMBER - 2 DECEMBER

📕 Lecture 28 ☐

Maximizing Directional Derivatives and Tangent Planes to the Level Surfaces

📕 Lecture 29 ☐

Maximum and Minimum Values

📕 Quiz 29/11/2018 Solution ☐

📕 Problem Set 9 ☐

📕 Problem Solution 9 ☐

3 DECEMBER - 9 DECEMBER

📕 Lecture 30 ☐

Lagrange multiplier

📕 Lecture 31 ☐

Double Integrals

📄 Lecture 32 ☐

Iterated Integrals

📄 Problem Set 10 ☐

📄 Solution to Problem Set 10 ☐

Forgive my handwriting.

10 DECEMBER - 16 DECEMBER

📄 Lecture 33 ☐

Double integrals over general region

📄 Problem Set 11 ☐

📄 Partial Solution Problem Set 11 (Priority questions) ☐

📄 Partial Solution Problem Set 11 ☐

17 DECEMBER - 23 DECEMBER

📄 Lecture 34 ☐

Double integrals in polar coordinates

24 DECEMBER - 30 DECEMBER

📝 Quiz MAT201 ☑

There are 10 questions in this quiz. Please answer all questions.

This quiz can be answered from 11AM 24/12/2018 until 11AM 25/12/2018

You have one hour to complete all the questions.

📄 Solution for Test 2 ☐

INFORMATION FOR

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