Exam prep advice for MATH2017

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- 2. Learn the Definitions!
- 3. LEARN THE GODDAMN DEFINITIONS!!!

Classifying questions on the 2023 paper

Туре	marks	example
Prove a simple fact	26	2022 Q2
Precisely define	24	2022 Q1
Apply theory developed in module to prove something new	21	2022 Q3(b)
State a theorem from the notes	13	2022 Q3(a)
Just compute something	12	2022 Q4(a)(i)
Prove a theorem from the notes	3	2022 Q4(b)
Give an example of	1	2018 Q1(c)

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- It's much more important to know (and **understand**) the statements of all the theorems.
- You will be expected to prove (mostly simple) new things. So think of the proofs in the notes as "examples" of proofs.
 Reading and understanding them prepares you to use the underlying ideas.

- Some of the proofs are too hard to be examinable:
 - Theorem 4.20 (Taylor's Theorem)
 - Theorem 5.20 (Continuous functions are integrable)
 - Theorem 7.23 (Uniform convergence is equivalent to the Uniform Cauchy property)
 - Lemma 8.20 (A power series has the same radius of convergence as its termwise derivative)
 - All proofs in section 8.6.

- The exam is marked by a team (including me).
- We split the marking by **question**, so I will sit down and mark (say) question 2 on each of the ~ 160 scripts, while another team member does question 3 (say).
- No-one will sit and read your script form start to finish in one go!
- Make life easy for the markers: arrange your answers so that they're easy to find.

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- Will the questions in the exam be a similar style to the homework/ tutorial questions or will they be closer to the questions on the past exam papers from 2018 and 2019?
- I was hoping on Friday in the Q+A session you would be able to cover how you can construct a sequence / function that does / does not have certain properties.

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- If we're asked to prove something and want to refer to a
 Theorem from the lecture notes, do we have to quote the
 Theorem number, or can we just say "by a theorem in the
 notes".

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Hope you enjoyed the ride!