

“Resubmitted Quiz + Reflection” Guidelines

The goal of this exercise is to demonstrate that you have gained good understanding of quiz problems.

Take the following two steps:

1. Re-writing the quiz solution: After the quiz solutions have been posted and the quiz grades have been released, make an attempt to understand the correct solution to the problems for which you did not obtain full points. Once you have gained good understanding, re-write the solution to the problems where you did not obtain full score **in your own words**. If you copy-paste solution or produce the same counter-example at this point, you will receive poor scores and hurt your chances of succeeding in the class.

2. Add a reflection:

(i) Describe the mistake that was made in this problem (Goal: to recognize the mistake and not make it again), and (ii) Describe what *new learning* that has occurred in the re-writing of your solution (Goal: to recognize that you have learnt something new which you can hopefully use in future).

Example 1:

- (i) I forgot to apply the chain rule while taking the derivative of $\ln f(n)$.
- (ii) Derivative of $\ln f(n)$ is not simply $1/f(n)$ but $f'(n)/f(n)$

Example 2:

- (i) I broke the sum $\sum i * a^i$ as two separate sums: $\sum i * \sum a^i$. This is incorrect.
- (ii) A good way to understand sums is to write them down explicitly such as:
 $\sum i * a^i = a + 2a^2 + \dots + n * a^n$

Example 3: (AN EXAMPLE to be AVOIDED)

- (i) I ran out of time¹. [This explanation will be awarded zero points. Follow the guidelines in the footnote below]

Submit the above document on canvas in the comments section of the Quiz.

3. One-to-One Virtual Engagement (Explanation Sessions with Teaching Staff): Every student will be asked to explain the resubmitted quiz solutions during 1-1 virtual meetings with the teaching staff on a weekly basis. The teaching staff may also ask you to explain solutions to quiz (or even homework problems) problems that were awarded full points. You must share the screen with the rewritten solution + reflections with a TA/Tutor while explaining your answer.

¹ To avoid this situation, students who are unable to finish the quiz on time should first write down the solution to the quiz problem *before looking at the solution*. You may want to complete this step even before the quiz solutions have been posted. As part of resubmitted quiz, you should submit the solution, and then self-evaluate your score. If 100% correct, explain the correct solution to the TA/tutor. If not 100% correct, follow the same methodology of adding reflection.