Quiz Corrections and Wrapper 1

Quiz Corrections

For this portion of the assignment, you will correct your quiz and rewrite correct solutions to the problems that you missed points on. If you earned 100% on the quiz you can move on to the Quiz Wrapper section below and complete the quiz wrapper as part of your final portfolio.

You can get help with this! Work with a friend, ask your TA (Teaching Assistant) or instructor for help in Office Hours, talk about the problems in the math help room or the learning den. You will put the updated problem in the "Problem number and corrected work" in the first column of the table below.

In the column "Please explain your original mistake(s) and how you fixed them" you should explain what error occurred in your original submissions and then what you did to correct it.

Here are some questions to think about for filling in this column:
- Did you make a calculation error or distribution error (you plugged a number in incorrectly or missed a set of parentheses)?
- Did you solve using the wrong operation (you did not distribute, you made a mistake with logarithm or exponent rules, or you made a mistake)?
- Did you make a transcription error (you wrote 2 but it was supposed to be 5)?
- Did you have a conceptual error (you did not apply a limit or derivative rule correctly or misinterpreted a rate or quantity given to you in the problem)?
- Did you miss a key problem-solving step (you did not draw and label a diagram, your mis-identified the known and unknown quantities, or you plugged in known quantities too early)?
- Could you not formulate an approach to the problem (you did not know where to start)?

Here is an example:

Problem number and corrected work 3b)	Please explain your original mistake(s) and how you addressed them
My wrong answer was: The equilibrium of the differential equation at y = 0 is stable. The correct answer: The equilibrium at y = 0 is semi-stable because solutions with an initial value y(a) <0 tend to y = 0 as t → ∞, but solutions with an initial value y(a) > 0 tend to infinity as t → ∞.	My explanation: When I first did this problem, I thought that the answer was stable because the derivative is always greater than or equal to zero. This was a conceptual mistake about how to classify an equilibrium.

Quiz Wrapper

Part 1 – Learning Objectives

You've looked over your quiz and may or may not have needed to write corrections. Thinking about the quiz overall, what were the main 5 learning objectives that this quiz assessed? We will get your started, but list 4 more learning goals that you showed proficiency in, or are working towards proficiency in, working through these quiz problems:

1. Students should be able to identify Type I and Type II improper integrals.
2.
3.
4.
5.

Part 2 – Reflection on Learning

Now that you have looked over your graded quiz, estimate the percentage of points you lost due to each of the following
(make sure the percentages add up to 100):

    a.   Identifying what the problem is asking.
    b.   Applying basic principles or definitions
    c.   Recalling formulas
    d.   Recalling remembering definitions
    e.   Synthesizing multiple concepts together
    f.   Building a clear argument
    g.   Checking for computational errors or mistakes
    h.   Managing your time during the quiz
    i.   Other
        (Please specify:) Total: 100%

Part 3 – Study Practice

Below are questions to answer to help you turn your reflection into an action plan for studying for the next quiz.

- What in your study practice could help you address the kind of mistakes you made? Are those things that you are already doing or that you need to make a change to incorporate? What changes might you make?
- Do you need help or support addressing the issues above? If so fill out this quick form.

Prepared by Emily Braley, Department of Mathematics, Johns Hopkins University

[1] *Exam Wrappers*. (n.d.). Carnegie Mellon University Eberly Center. https://www.cmu.edu/teaching/designteach/teach/examwrappers/

Quiz Corrections and Wrapper 2

Quiz Corrections

For this portion of the assignment, you will correct your quiz and rewrite correct solutions to problems that you received grading comments on. If you earned 100% on the quiz you can move on to the Quiz Wrapper section below and complete the quiz wrapper as part of your final portfolio.

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In the column "Please explain your original mistake(s) and how you fixed them" you should explain what error occurred in your original submissions and then what you did to correct it.

Here are some questions to think about for filling in this column:

- Did you make a calculation error or distribution error (you plugged a number in incorrectly or missed a set of parentheses)?
- Did you solve using the wrong operation (you did not distribute, you made a mistake with logarithm or exponent rules, or you made a mistake)?
- Did you make a transcription error (you wrote 2 but it was supposed to be 5)?
- Did you have a conceptual error (you did not apply a limit or derivative rule correctly or misinterpreted a rate or quantity given to you in the problem)?
- Did you miss a key problem-solving step (you did not draw and label a diagram, your mis-identified the known and unknown quantities, or you plugged in known quantities too early)?
- Could you not formulate an approach to the problem (you did not know where to start)?

Here is an example:

Problem number and corrected work 3b)	Please explain your original mistake(s) and how you addressed them
My wrong answer was:	My explanation:
The equilibrium of the differential equation at y = 0 is stable.	When I first did this problem, I thought that the answer was stable because the derivative is always greater than or equal to zero. This was a conceptual mistake about how to classify an equilibrium.
The correct answer: The equilibrium at y = 0 is semi-stable because solutions with an initial value y(a) <0 tend to y = 0 as t → ∞, but solutions with an initial value y(a) > 0 tend to infinity as t → ∞.	

Quiz Wrapper

Part 1 – Reflection on Preparation

1. What percentage of your preparation for the quiz was done alone and what percentage was done with one or more persons?
2. How much time did you spend reviewing or studying with each of the following:
   a. Reading class notes
   b. Reworking homework problems
   c. Working out practice quiz problems (without looks at the solutions)
   d. Reviewing practice quiz solutions
   e. Reading the book
   f. Working out additional problems
   g. Creating a study guide
   h. Other:
3. Now that you have looked over your quiz and corrected it, be as specific as possible answering the following questions (it might be helpful to look over the learning objectives that were assessed on this quiz):
   a. What skills have you mastered and showed mastery of?
   b. What skills have you mastered and have not shown mastery of?
   c. What skills are you still building mastery towards?
4. Based on the skills analysis above, what will you do differently in your regular study practice? For example, will you
   a. Start studying incrementally each week?
   b. Use practice quizzes without looking at the solutions first?
   c. Spend more time working on a particular concept?
   d. Other

Part 2 – Further Reading

Want to read more about the value of exam or quiz wrappers? How does this help bolster your study skills and ability to use assessments to create learning? Engaging with a reflective activity like an exam wrapper after an assessment can help you:

- identify your areas of strength and weakness to inform further study.
- reflect on your preparation time study strategies; and
- characterize any errors to identify any patterns that could be addressed.

Read more about reflection and exam wrappers from Marsha Lovett at the Eberly Center for Teaching and Learning at Carnegie Mellon. [1]

Prepared by Emily Braley, Department of Mathematics, Johns Hopkins University

[1] *Exam Wrappers*. (n.d.). Carnegie Mellon University Eberly Center.
https://www.cmu.edu/teaching/designteach/teach/examwrappers/

Quiz Corrections and Wrapper 3

Quiz Corrections

For this portion of the assignment, you will correct your quiz and rewrite correct solutions to problems that you received grading comments on. If you earned 100% on the quiz you can move on to the Quiz Wrapper section below and complete the quiz wrapper as part of your final portfolio.

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In the column "Please explain your original mistake(s) and how you fixed them" you should explain what error occurred in your original submissions and then what you did to correct it.

Here are some questions to think about for filling in this column:

- Did you make a calculation error or distribution error (you plugged a number in incorrectly or missed a set of parentheses)?
- Did you solve using the wrong operation (you did not distribute, you made a mistake with logarithm or exponent rules, or you made a mistake)?
- Did you make a transcription error (you wrote 2 but it was supposed to be 5)?
- Did you have a conceptual error (you did not apply a limit or derivative rule correctly or misinterpreted a rate or quantity given to you in the problem)?
- Did you miss a key problem-solving step (you did not draw and label a diagram, your mis-identified the known and unknown quantities, or you plugged in known quantities too early)?
- Could you not formulate an approach to the problem (you did not know where to start)?

Here is an example:

Problem number and corrected work 3b)
My wrong answer was:

The equilibrium of the differential equation at y = 0 is stable.

The correct answer: The equilibrium at y = 0 is semi-stable because solutions with an initial value y(a) <0 tend to y = 0 as t → ∞, but solutions with an initial value y(a) > 0 tend to infinity as t → ∞.

Please explain your original mistake(s) and how you addressed them
My explanation:

When I first did this problem, I thought that the answer was stable because the derivative is always greater than or equal to zero. This was a conceptual mistake about how to classify an equilibrium.

Quiz Wrapper

Part 1 – Reflection on test-taking

Reflect on and provide written responses to the 3 of the following prompts:

1. How well did you understand and follow the instructions given for the quiz?
2. Did you read through the whole quiz before starting it? Which question did you work on first and why?
3. Did you have enough time to attempt all the questions? Did you spend enough time on questions that were worth significant points?
4. What kinds of questions did you find easier to answer? Which did you find more difficult?
5. Which concepts and topics were you the most confident answering? Least confident answering?
6. What kinds of emotions did you feel during the exam? Did you use any stress management techniques?

Part 2 – Further Reading

Want to read some tips for quiz and test taking? This blog post from the Harvard Summer School [1] provides tips for preparation and tips for test-taking to help you set yourself up for success on your next timed assessment.

Prepared by Emily Braley, Department of Mathematics, Johns Hopkins University

[1] *14 Tips For Test Taking Success*. (2022, September 20). Harvard Division of Continuing Education. https://summer.harvard.edu/blog/14-tips-for-test-taking-success/

[2] *Exam Wrappers*. (n.d.). Carnegie Mellon University Eberly Center. https://www.cmu.edu/teaching/designteach/teach/examwrappers/