Self-Grading Guide & Instructions

The objective of the problem sets is for you to **practice solving problems**. In a few small cases, the right answer will be a good indication of your understanding. In most other cases, your **thought process** will be a better indication as to whether you are grasping the material.

Some of the concepts in the course take a while to sink in, so it wouldn't be fair to grade purely on *correctness*. That would mean you need to be an expert on the material in less than a week, which isn't very fair. Instead, you will mostly be graded on **effort** and **thought process**. Please keep this in mind when self-grading your problem sets.

If you complete your self-assessment, you automatically get the points allocated for the self-assessment, regardless of what you assigned to yourself. The graders will then assign a grade (also based on **effort** and **thought process**) which will account for the remaining points for the assignment.

For each problem, use the following multipliers on the points assigned to the problem to compute your grade for that problem. Then annotate your grade directly in the Feedback PR of your GitHub assignment repository. See Appendix A for instructions on how to submit your solutions and Appendix B for instructions on how to annotate your submission.

Multiplier	Explanation	How to improve
1.0	Correct	Keep it up!
1.0	Minor clerical error	It happens, but be careful.
0.9	Minor conceptual error	Look for more practice problems.
0.8	Major conceptual error	Review the notes and practice more.
0.7	Incorrect approach	Come see me or the course assistants and we'll help!
0.0	No answer	Come see me or the course assistants and we'll help!

As you can see, you get more than half the points for effort. The rest of the points are assigned for conceptual understandings. Minor clerical errors are not penalized, however, if the graders notice this happening several times, then some points will be deducted.

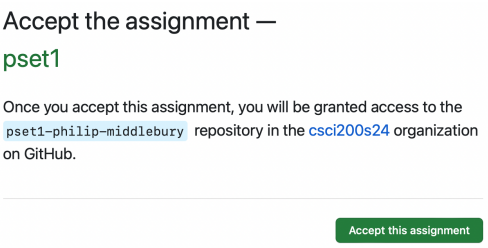
Please note that for problems with multiple parts, the points assigned to each part will either be explicitly stated **or** you should divide the total points assigned for that problem by the number of parts. For example, in a problem with 9 points and 9 parts, each part will be worth 1 point. Please apply the above multipliers to each part and total up your score for the entire problem.

If you correctly solved the **bonus** part of a problem (if there is one), then increase your grade for that particular problem using the next highest multiplier (maximum of 1.0). For example, if you originally had a multiplier of 0.9 for a problem, and you solved the bonus correctly, then use 1.0 instead.

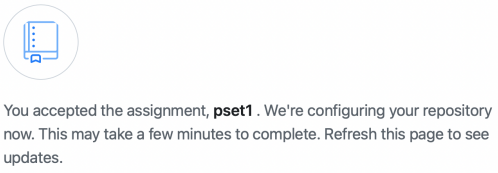
The next page contains instructions on submitting and self-grading your problem sets.

Appendix A: working on and submitting your problem set

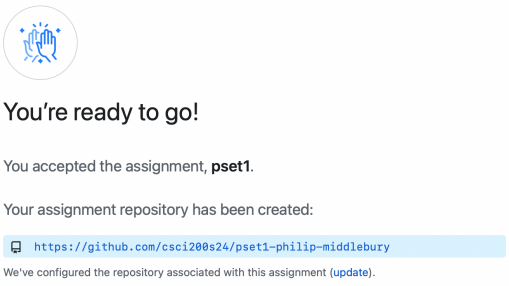
Step 1: Links to the problem sets are posted on the class calendar.
Step 2: Accept the assignment.



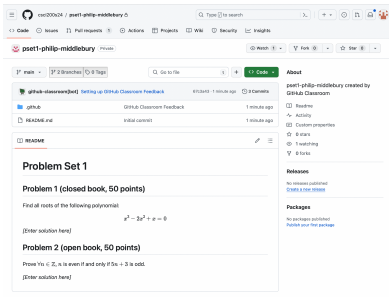
Step 3: You will see the following message. Please refresh the page:



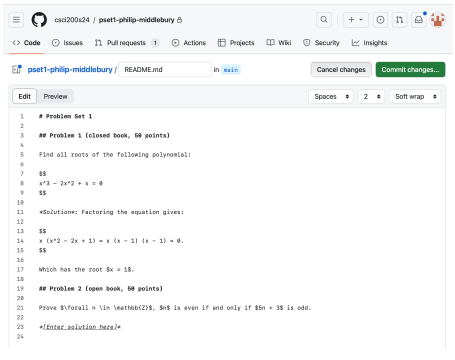
Step 4: After refreshing the page, you should see a link to your repository. Click on the link:



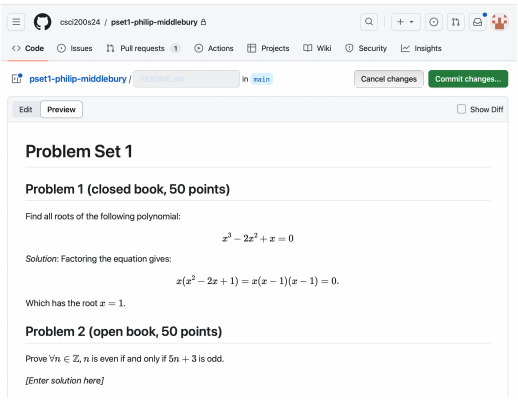
Step 5: You should now see the problem set template:



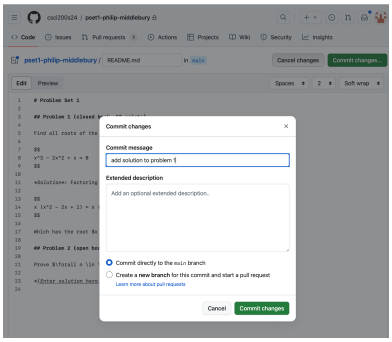
Step 6: Edit the `README` file (click on the pencil icon). Then type your solution:



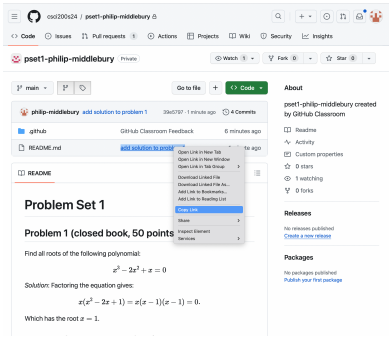
Step 7: Click on "Preview" to view the rendered Markdown (ensure the equations appear correctly):



Step 8: Commit your changes to save your work (you can do this many times!):



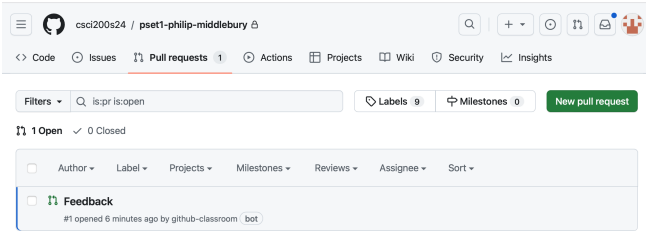
Step 9: Once you have completed the assignment, go back to the main repository page and get the link to the latest commit:



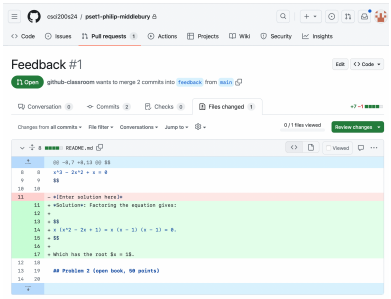
Step 10: Copy the link to the question in the Canvas quiz and submit the quiz. The solutions will now be available on Canvas.

Appendix B: self-grading in a Feedback Pull Request

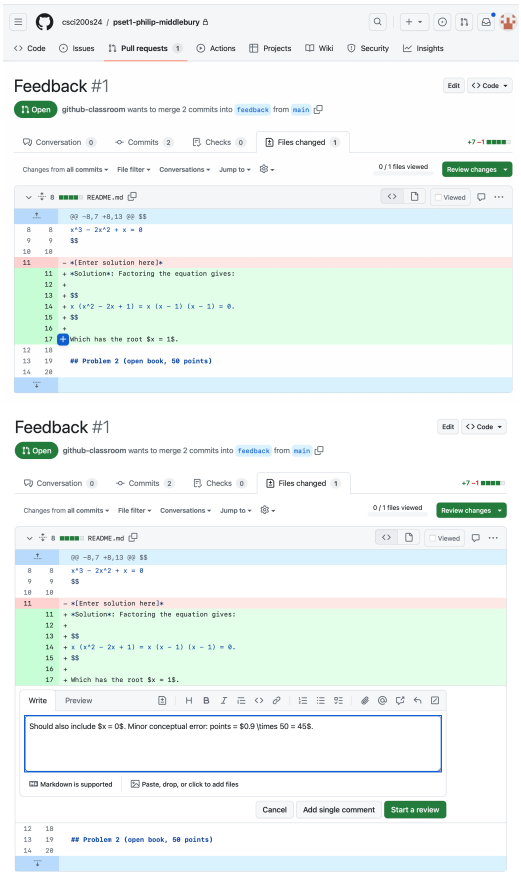
Step 1: Open the solutions in the Modules section on Canvas.
Step 2: Navigate to the **Pull Requests** tab in your problem set repository:



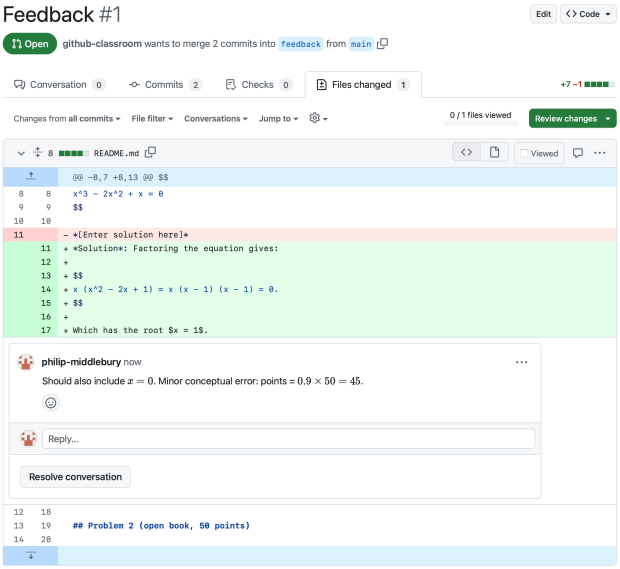
Step 3: Click on the Feedback PR and then click on the "Files Changed" section to view the difference between your submission and the template:



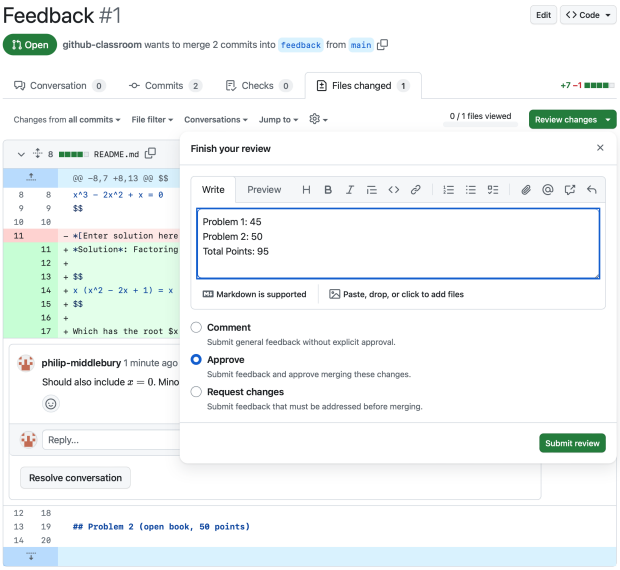
Step 4: Check your solution with the solution posted on Canvas. To make a comment on your solution, hover over a particular line and click the + symbol on the left. A box should now open where you can add a comment (also typeset in Markdown):



Step 5: Click "Add single comment". Do not click "Resolve conversation".



Step 6: Once you have made comments on all the problems, start a review by clicking "Review Changes" at the top-right of the PR. List the points for each problem and add them up, then select "Approve" and click "Submit review". **Please do not "Merge" the pull request!**



The graders will then review your submission, make additional comments and enter the final grade for the problem set in Canvas.

If you're not sure about something, please tag the graders team by adding `@graders` in your comment. We will be notified that you have a question and will respond directly in the Feedback PR.