Math 113(2) - Comments for HW1

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Some general comments:

- 1. Please use staplers or clips, not just fold the left-upper corner of papers!
- 2. Try to write well! maybe this will be harder than the first one...
- 3. If you can, try to use LATEX.
- 4. For questions that requires proofs, I almost not give any partial credits.

Section 0, Problem 12

Some of students only give answers without any reasons. I gave full credits (if the answer is correct), but you should write reasons for later homework (although it seems trivial). For example, for a), f is not one-to-one since f(1) = 4 = f(2).

-1 points for each wrong answer.

Section 0, Problem 32

You should give at least one counterexample for the failure of the transitivity, or I deducted 1 point.

Section 1, Problem 37

You can show that the map isn't injective (ζ and ζ^4 both map to 2) or not surjective (you can check that $1, \zeta, \zeta^2, \ldots, \zeta^5$ go to 0, 4, 2, 0, 4, 2, so 1, 3, 5 aren't in the image). 0 point for strange arguments.