

## Math 54: Topology Homework Checklist

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It's 3:14 in the morning, you've been working all night, and you want to submit your homework before going to bed. Your instructor is demanding and he is requiring you to *write* in a math class, prove things, and *then* typeset the solutions using L<sup>A</sup>T<sub>E</sub>X. Keeping track of it all is obnoxious and you just don't want to navigate the course website. That's where this succinct list can help.<sup>1</sup>

- Read problem statements.
- Solve problems.
  - Justify each step (e.g., reference the definition or specific results).
- Type up solutions.<sup>2</sup>
  - Scan the assignment for missing/improperly coded characters (e.g.,  $\mathbb{R}$  instead of  $\backslash\mathbb{R}$ ).
- Give credit to collaborators and other sources *for each problem*.
- Upload homework.
- Breathe a sigh of relief.

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<sup>1</sup>Reading this checklist is not a substitute for the information on the course website. There is much more that goes into mathematical writing and problem solving than is being expressed here.

<sup>2</sup>The “writing mathematics” resource subsection has good articles to read when trying to work through this step.