

**Problem Set 5: Project Preproposal**

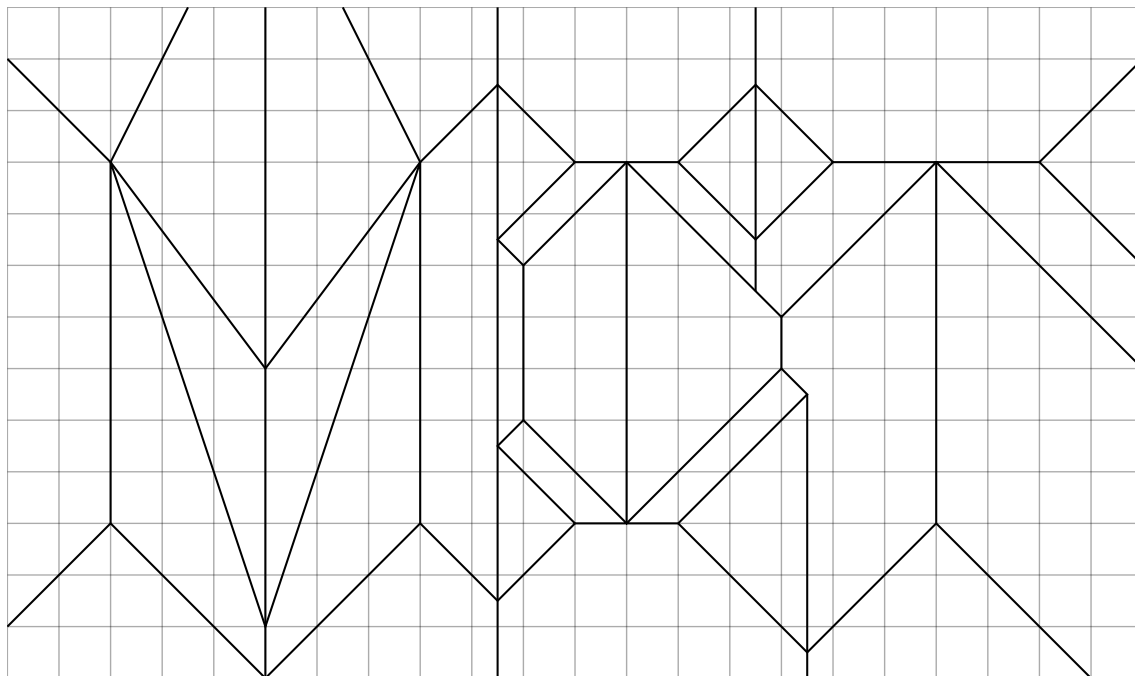
*Due: Thursday, October 8, 2020*

**Problem 5.1 [Project Preproposal].** Start thinking about what your final project might entail. Specifically:

- (a) Read the course website,<sup>1</sup> which describes the possible types of projects and lists some (old) project ideas.
- (b) Look at the class problems and work you've done during class, both for suitable problems/results and to understand what types of problems you enjoyed.
- (c) Talk to your fellow students, in the Project Discussion Comingle room or the corresponding Coauthor thread.<sup>2</sup> Also feel free to talk to staff during class or office hours or over email.
- (d) Look ahead at future lecture topics to see whether there's something there you'd like to explore deeper. (You can always watch the videos early.)
- (e) Read Problem Set 6,<sup>3</sup> which gives the exact specification for a project proposal.

Submit your preliminary ideas or directions for your final project by posting a message in the Coauthor preproposal thread,<sup>4</sup> *not* via Gradescope.

**Problem 5.2 [Skeletal Reconstruction].** Draw a polygon, or a set of disjoint polygons, whose straight skeleton is given by the black lines in the following diagram:



PDF: <http://courses.csail.mit.edu/6.849/fall20/psets/ps5-2.pdf> / SVG: <http://courses.csail.mit.edu/6.849/fall20/psets/ps5-2.svg>

<sup>1</sup><http://courses.csail.mit.edu/6.849/fall20/project/>

<sup>2</sup><https://coauthor.csail.mit.edu/6.849-2020/m/dnKgGCah5qvcBjAi6>

<sup>3</sup><http://courses.csail.mit.edu/6.849/fall20/psets/ps6.pdf>

<sup>4</sup><https://coauthor.csail.mit.edu/6.849-2020/m/8wtt9snQtxMwApwDg>