

MA 310 Exam #4
Due by 3 pm, Wednesday, May 6

Submit these problems by the above deadline either directly to me in my office (967 POT) or else in a sealed envelope in my mailbox (715 POT). You may work with each other and ask me questions, **BUT YOU MUST WRITE UP YOUR FINAL SOLUTIONS COMPLETELY ON YOUR OWN AND BY YOURSELF**. In any case, you may not use any other sources of information outside the course, either human or nonhuman.

1. Solve “Planar Clusters” 1–5. Justify all of your answers. Be sure you explain how you are systematic in your enumeration.
2. Solve “Regular and Semiregular Tilings,” 1–4. Justify all of your answers. For part 1 all I am asking for are the drawings with explanation; however, **MAKE VERY CAREFUL DRAWINGS, PREFERABLY WITH SOME COMPUTER PROGRAM.**