

## MATH 3040: HOMEWORK 6

All answers must be in complete sentences. All assertions must be proven, per the student contract. Remember that this is a writing class, so while correctness and thoroughness are most important, *style* matters as well.

**1. (Practice in Posing Questions)** What is an interesting open-ended question you could ask, which is related to the material that we covered in class? What is a concrete mathematical question that could be used to approach an answer to the question?

**2–6. (Prelim Prep and Practice)** Think of five different questions that you feel would be appropriate for a (non-timed) exam on the material in the class so far. (Essentially, write a prelim exam or prelim homework assignment for the class, as if you were teaching it.) Write solutions to each of your questions. You will be graded on both your questions and your solutions.

One suggestion for ideas: look to the questions that you submitted as the first answer to your previous homeworks, especially the part about the concrete questions.

There is *no groupwork assignment* this week. Good luck studying for the exam!