MATH 311/510 HOMEWORK–6 DUE AT THE BEGINNING OF CLASS ON TUESDAY, OCTOBER 11.

(1) During your observations this week, focus again on the teacher’s questioning strategy. Pay particular attention to the instances in which a teacher asks for elaboration from a student. How often does the instructor ask a student for more detail? Does the instructor ask for more detail only when the student answers incorrectly? Write a typed, 250-300 word description of what you observe. If you observe no classroom discussion, then write about what you do observe. In the heading, write the level(s) and grade(s) of the classes you observe.

(2) Look again at the articles we read last week. Write a few paragraphs to address the following:

   (a) Compare the types of writing expected from students in each of the studies. Explain the different uses of mathematical writing, according to the authors.

   (b) The authors of each study give a classification of students’ written work. Explain these classifications.

   (c) Explain how the writing is attached to grading and assessment in the journal writing study. What are your thoughts?

   (d) For the study that compared oral communication to written communication of problem solving processes, describe the author’s main conclusions and also the methodology of the study. Discuss your opinion on the conclusions and their limitations.

(3) Read pages 308-318 in the NCTM Principles and Standards.

(4) Don’t forget to find a time to meet with me to talk about your lesson and presentations.