

MATH 311 HOMEWORK–DUE TUESDAY, OCTOBER 14

- (1) Carefully read the two articles below. Write 3-4 questions for discussion with the class.
 - (a) Pugalee, D. (2001). Writing, mathematics, and metacognition: looking for connections through students' work in mathematical problem solving. *School, Science and Mathematics* 101(5), 236-245.
 - (b) Waywood, A. (1992). Journal Writing and Learning Mathematics. *For the Learning of Mathematics* 12(2), 34-43.
- (2) Write an outline of the 20 minute lesson that you plan to present to the class. Include at least the following:
 - A clear statement of the objective(s) for the lesson.
 - The Common Core Standards that are addressed. Include the Domain(s) and the Mathematical Practice Standards.
 - Anticipatory Set. Write a paragraph explaining this motivation, and how it motivates the lesson.
 - Outline the lesson, and include expected timing for each section.
 - Include in the outline statements about what *students* will be doing.
 - Include in the outline key questions you will ask to guide the lesson.
 - Include in the outline notes on how you will address the needs of diverse learners. Your peers are your students; I am asking for you to try to anticipate distinct backgrounds and skills of your colleagues.
 - Closure. Write a paragraph explaining a thoughtful closure for the lesson.
 - If you have time, add more detail to the lesson now. This is not required until next week.