

Math 310 Problem Solving for High School Teachers
Spring 2016
Lecturer: Dr. Paullin
Homework 1-Game Of 100

(1) Read Chapter 1 in the Zeitz textbook.

(2) Consider the game of 100.

This is a two player game. Begin with the number zero. Players alternately add a positive integer from 1 to 6, inclusive, to the current running sum. The first player to exactly achieve the number 100 wins. Who can win? Is there a winning strategy? Play this game with a classmate several times. Write up any thoughts or conclusions that you come to, even if it is not a complete solution. Be specific about what you've tried, even if it didn't turn out to be a productive conclusion. Turn in your complete problem solving process.

This homework is due in class on **Friday, January 22nd**.