HW1 Reflection

For the entire homework set, make sure to also include:
- a reflection on the assignment and your solutions. Reflections may include
· discussion of how routine or challenging the assignment was,
· approximation of time spent on the assignment or on individual exercises,
· details about particular difficulties or false starts,
· explanations of why solutions are incomplete or incorrect, etc.
- a self-assessment (C/R/M) for the entire assignment.

Since this was my first revision and the very first assignment, the overall difficulty of the work was pretty easy. I already like to work with poetry (my favorite poets are Edgar Allan Poe, Sylvia Plath, and Alfred Tennyson; my favorite works are *The Raven* and *Evangeline*), so writing the poem and haiku for the creative portions were fun challenges for me. I was already introduced to metric spaces from Advanced Calculus, but the arclength as a distance was something that I came up with myself, since it seemed to be the natural way of measuring curves (in real life, at least). The proofs were easy to come up with, and were not too tedious; I played around with some answers to the bonus questions, however I couldn't work anything out. They kind of reminded me of the epsilon-delta definitions for integration in my other class, since after all my curve distance is an integral. I probably spent around two hours developing and writing up the solutions to this exercise. I think it was a great introduction to topology, and having the creative portions helped ease the typical pain of writing math proofs in math classes.