

Read *Flatland, A Romance In Many Dimensions*. Then either

1. write your own continuation or variation on life in Flatland.
2. give a description of the ways in which a 2-dimensional universe constrains the environment and its inhabitants.

Whichever alternative you choose, be creative. Move beyond what is done in *Flatland*, and really think about what it would be like to live in a 2 dimensional universe. Keep in mind at all times what we've learned about 2 dimensional universes, and incorporate those ideas in soundly. Your essay or story should make sense and be consistent mathematically, of course.

*Possible Points:* If you choose to come up with your own continuation or variation on life in *Flatland*, and if it's sound and substantive (at least a couple of pages), *and* if it's clear you read the entire book (and you didn't already do a book review of it for Project 1) this could earn up to 30 or even 40 points. Similarly, if you describe ways in which a 2D universe constrains the environment and its inhabitants and your description goes beyond what's in *Flatland*, you could again earn up to 40 points. If you have already used *Flatland* for Project 1, *or* if you didn't read the whole book (or it's not clear to me that you did), you can still receive up to 20 points for a sound and substantive description of life or the environment in *Flatland* that goes beyond what's in *Flatland*. Describing constraints that are mentioned in the book will of course earn you somewhat less.