Assignment

Read the last part of section 13.1 for the homework.

- p. 728 5,9,11,13,35,36,41

Take-aways

After reading this section, attending this class and doing this homework you should know

- how to find parameterizations of circles parallel to coordinate planes
- how to find projections on curves onto coordinate planes
- how shifting, stretching and scaling look when you're making parameterizations
- how to plot parameterizations that you don't recognize off the bat
- how parameterizations relate to equations of known shapes (e.g., how the parameterization of a circle $\langle \cos t, \sin t \rangle$ satisfies $x^2 + y^2 = 1$
- how to identify parameterizations from graphs (e.g, looking at projections, looking at components as $t \to \infty$, etc).

Other stuff

You might find it useful to use your TI-89 to graph parametric curves in 2-space. Here

`http://education.ti.com/html/t3_free_courses/calculus89_online/mod23/mod23_lesson1.html`

is one way to do it.

If you're game, you can also program your calculator to graph parametric curves in 3-space. Instructions can be found at

`http://www.brookscole.com/math_d/special_features/calclabs/mv4e_ti_89_92/ch04.pdf`