## Mathematics 308 - Geometry

Third homework — due Wednesday, October 8
Exercise 1. (a) Finish the procedure mkline, and include examples of how to use it. (b) Modify your examples to restrict drawing to a square of sides $4^{\prime \prime}$ in the centre of the page. (c) Modify your procedure so that it doesn't depend on a particular choice of page dimensions, but uses PostScript to figure out what they are. Include examples.

Exercise 2. Use Bezier curves to graph the function $y=\cos (x-\pi / 6)$ for $x=-\pi$ to $\pi$. Put your graph in a box $3^{\prime \prime} \times 6.5^{\prime \prime}$. Your graph should be accurate to within $0.01^{\prime \prime}$. Use loops to include a coordinate grid in grey or some pastel colour.

