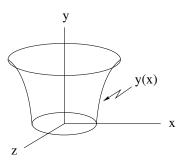
## [mex27] Economy plastic cup

A manufacturer of plastic cups receives an order for cups of given height, diameters at the top and bottom, and material thickness. Determine the profile y(x) at z=0 of the cup which minimizes the amount of plastic needed for each cup.



Solution: