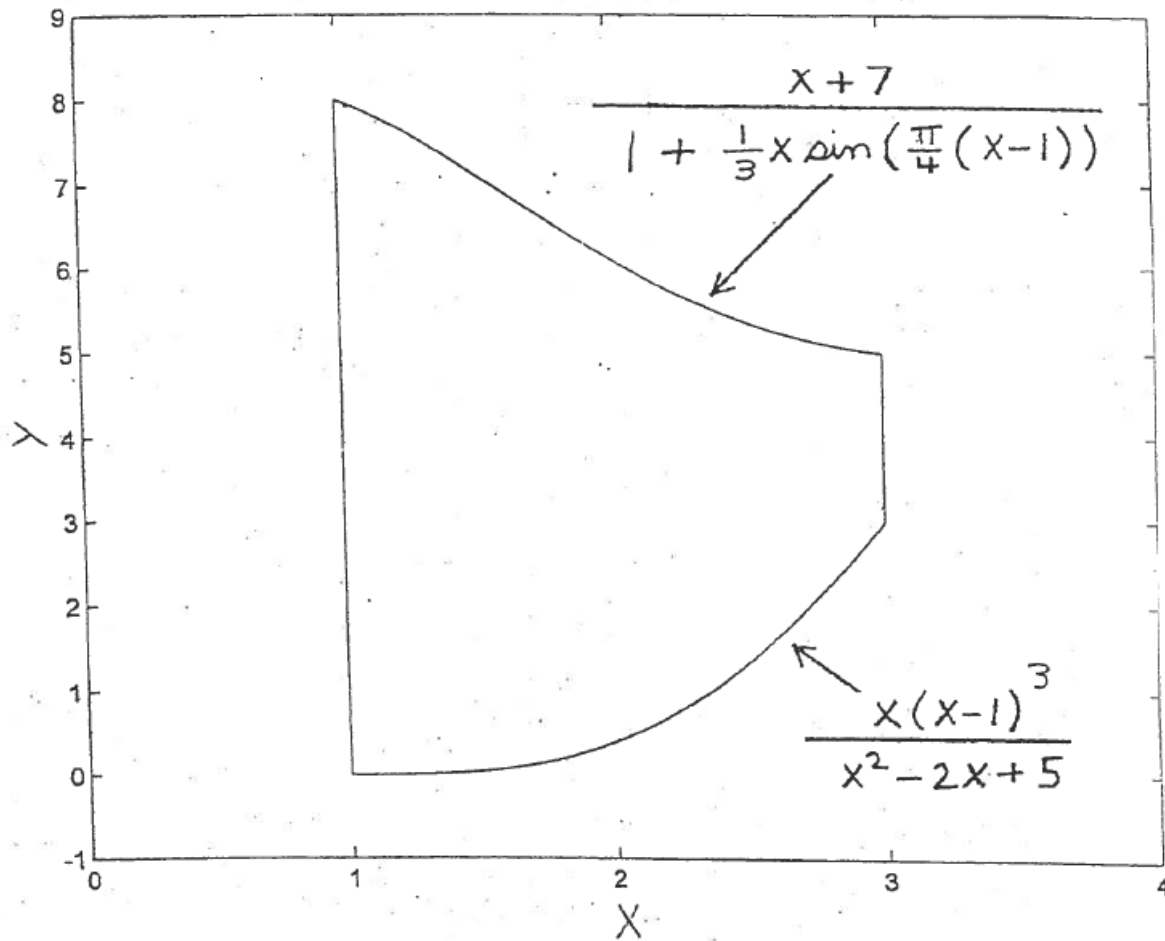


Sample 8b



The thin flat sheet shown above has density

$$\rho(x,y) = \frac{(xy + 2x + y^2)e^y}{\sqrt{3x^5 + 2y^4 + 7}}$$

Write a MATLAB program to calculate and print the mass of the thin flat sheet. Use $1e-7$ as the accuracy factors. The output of this program should look like this:

mass = 1546.78789