

Worksheet 7

MATH 1A Fall 2015

for 3 November 2015

Exercise 7.1. Minimize the surface area of a cylindrical tube (including top and bottom) with volume 3. (Find the value of the minimal surface area and the dimensions that make it so.)

Exercise 7.2. Find the point(s) on the parabola $y = x^2$ closest to the point $(-12, 15/2)$.