

MA 16010 Quiz 9

Lesson 24-25

30 March 2022

Problem 1. A closed box with a square base has a volume of 1000 cm^3 . Find the dimensions of the box that requires the least amount of material. How much material is required at the minimum? Make sure to show all of your work.

(a) What is the objective function?

(b) Width =
Length =
Height =