

MATH 131, Fall 2019

Name: _____

Quiz 10

11/21/19

Section: _____

For full credit you must present a clearly organized solution, showing all supporting calculations. Include appropriate units in your final answers.

1. An open top box with a square base is to be made by cutting four squares away from the corners of a $4 \text{ ft} \times 4 \text{ ft}$ square piece of cardboard, and then folding up the sides. Find the maximum volume possible and the dimensions of the box achieving it.