Math 1302, Summer 2016

Quiz 3

Name: _____

Problem 1. Container Corporation of America wants to manufacture a box with no top from a 10 inch by 12 inch piece of metal by cutting equal-sized squares from each corner and bending up the sides. Express the volume of the container as a function of its height.

Problem 2. Which point on the graph of the function $f(x) = \sqrt{x}$ is closest to the point $(1, 0)$? **Explain your answer**.