REAL ANALYSIS MATH 205B/H140B, HW#2

Chapter 10, exercises 26, 28, 36; Chapter 11, exercises 3, 10, 15, 16, 33, 35, and the following problem:

Problem 1.

Prove that there exists a continuous function $\gamma:[0,1]\to\mathbb{R}^3$ such that $\gamma([0,1])=[0,1]\times[0,1]\times[0,1]$.