

## 535A SPRING 2021 PROBLEM SET #1

**Problem 1.** Give an example of a function  $\mathbb{R}^2 \rightarrow \mathbb{R}^3$  which is  $C^2$  but not  $C^3$ .

**Problem 2.** Lee 1-1.

**Problem 3.** Lee 1-2.

**Problem 4.** Lee 1-3.

**Problem 5.** Lee 1-5.