

**THE CHINESE UNIVERSITY OF HONG KONG**

**Department of Mathematics**

**MATH1234 Course Name**

Homework 1

Deadline: 2020-09-01 Tuesday

Notice:

- All the assignments must be submitted before the deadline.
- Each assignment should include your name and student ID number.

1. Show that

$$\|x\| = \sum_{k=0}^n \sup_{t \in [0,1]} |x^{(k)}(t)|$$

is a norm on  $C^n[0, 1]$ .

— *THE END* —