

TASK

- Do this task in a group of max 4 students (could be less than 4 students but cannot more than 4 students; you can choose your own team).
- Do the following on a piece of paper with pen (not pencil), **handwritten**.
- Provide full steps to gain full marks
- Put your FULL names and ID numbers (of all the members)
- Scan it or screenshot it.
- Save it as “pdf” file
- **One group one submission only**

Given $f(x) = \sqrt[3]{x}$. Use 5 d.p.

- a. Find Taylor series for $f(x)$ at $x = 8$ (4 non-zero terms)
- b. What is the maximum error occurred?
- c. Approximate $\sqrt[3]{8.1}$ using part (a)
- d. What is the actual error? Compare (b) and (c).