

## **MTH5117 Mathematical writing: Coursework 0**

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*DEADLINE: Sunday of week 2, at 23.55.*

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This coursework is designed to help you familiarise yourself with electronic typesetting of coursework, and its submission via the QMplus environment. Cwork 0 will not be marked and it is not part of the assessment of this course. The first marked coursework will be cwork 1.

Electronic submission involves: (i) preparing a document; (ii) convert it to pdf format; (iii) log in into QMplus, and submit it.

You are advised to read the coursework regulations, on the web.

The symbol [∅] indicates that the written material should contain *no mathematical symbols whatsoever*, apart from numerals.

**Problem 1.** Study chapter 1 of the web-book. Then do the even numbered questions of exercise 1.2 at the end of the chapter.

**Problem 2.** Write three questions about fractions, of which you know the answer. Then ask three questions of which you don't know the answer. [∅]

**Problem 3.** Write three questions about prime numbers, of which you know the answer. Then ask three questions of which you don't know the answer. [∅]

**Problem 4.** Typeset the following equation

$$f(x) = \frac{1}{x^2 + 1} \left( e^{-x} + \sum_{k=1}^{\infty} \frac{1}{k^6} \right).$$