Make a LaTeX document for Assignment 0

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1 Instructions

You must reproduce this document *exactly* in LaTeX. Use the `article` class with the `10pt` and `a4paper` options. However, you must substitute your own name and surname for mine in the title, and use your own student number in the place of the "12345678". You will notice that I literally will test all the different text typesetting options that we covered in the course (and some more), and then also—of course – your mathe-ma-ti-cal typesetting proficiency. [1]

Submission You have to hand in on sunLearn both the pdf copy and your LaTeX source, before you leave the venue.

2 Some mathematics to typeset

The text and mathematics below is not supposed to make sense! We just want to look at the typesetting possibilities of LaTeX.

2.1 Symbols and layout

We can either use symbols like ϕ and π in text mode, or we can write it in display mode like this:

$$\phi \text{ and } \pi.$$

2.2 Superscripts and subscripts

Type in this formula:

$$x^2 + y^{2+x} \xrightarrow{\infty} x^{2x^{y+1}}$$

Sums are also useful: $\Sigma_{i=0}^{n}\Sigma_{j=0}^{m}x^{ij} + x^i$, and so are limits and integrals:

$$\int_a^b \frac{x^3 - x^4}{f'(x)g(x)}\, dx \geq \lim_{x\to\infty} f(x).$$

Be aware of the spacing in the equations above.

[1] This is a footnote.

2.3 And some last technical playsetting

$$\sqrt[5]{\frac{f^2(x)}{\sqrt{g(x)!}}}$$

and

$$\exists k : k < 42\%$$

and

$$A \cup B \neq A \cap B.$$