

Introduction to L^AT_EX

Exercise Sheet 3 (Group 5)

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The `.tex` and related image files for your solutions to this exercise sheet should be emailed to `clifford.gilmore@helsinki.fi` before 15:00 on 25th March. The produced document should contain enough text to fill two pages. If you can't think of anything to write then you can find random text from Lorem Ipsum at <http://www.lipsum.com/>

The subject line of the email should be *Latex Exercises 3* and the file name should be of the form `SurnameExercise3.tex`, e.g `GilmoreExercise3.tex`.

1. Create a document titled *L^AT_EX Solutions 3*, with you as the author.
2. Create a section called *My First Table* and using the `tabular` environment in this section add the below table.

	Born	Associated Maths
Archimedes	287 BC	$A_r = \frac{gL^3\rho_\ell(\rho-\rho_\ell)}{\mu^2}$
William Rowan Hamilton	1805	$i^2 = j^2 = k^2 = ijk = -1$
Évariste Galois	1811	$\text{Gal}(\mathbb{C}/\mathbb{R})$
David Hilbert	1862	$S = \frac{1}{2\kappa} \int R\sqrt{-g}d^4x$
Amalie Emmy Noether	1882	$\sum_\nu \frac{\partial j^\nu}{\partial x^\nu}$
Stefan Banach	1892	$\ xy\ \leq \ x\ \ y\ $
Lars Valerian Ahlfors	1907	$\text{Area}(\Omega/\Gamma) \leq 4\pi(N-1)$

3. Put the above table into a `table` environment and add a caption.
4. Create a new section called *Pictures* and add a picture (of your choice) to your document using a `figure` environment. Add a caption.
5. Add labels to the above table and figure and reference each of them somewhere in the document's text.
6. Add a table of contents to your document and generate a list of figures and a list of tables after the table of contents.

7. Create a section with the title *Functional Analysis and Related Topics*, containing three paragraphs and with each paragraph containing at least four lines. (You can copy-paste random text to fill the paragraphs)
8. Recreate the bibliography from the end of this exercise sheet in your document.
9. Cite a reference from your bibliography somewhere in the section *Functional Analysis and Related Topics* such that each reference is cited once.

References

- [1] P. Ara and M. Mathieu: *Local multipliers of C^* -algebras* (Springer Monographs in Mathematics, 2003).
- [2] C. G. Grosse-Erdmann: *Universal families and hypercyclic operators*, Bull. Amer. Math. Soc. 36 (1999), 345 - 381.
- [3] E. Saksman and H.-O. Tylli: *Multiplications and elementary operators in the Banach space setting*, in *Methods in Banach space theory*. (London Mathematical Society Lecture Notes 337, CUP, 2006), pp. 253 - 292.