

# NOTES ON RANDOM MATRICES

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(notes by (STUDENTS IN MATH 8380 COURSE))

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(ON THE T<sub>E</sub>X STYLE)

1. Introduction

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(ON THE T<sub>E</sub>X STYLE)

1. Please do not define and use any `\newcommand` commands!

2. Try to be consistent — use environments provided:

```
\begin{theorem}\label{thm:example}
  A theorem.
\end{theorem}
\begin{proof}[Idea of proof]
  And here is an equation:
  \begin{align*}
    a^2+b^2=c^2.
  \end{align*}
  This concludes the proof.
\end{proof}
```

The above code produces:

`\thm:example` **Theorem 0.1.** *A theorem.*

*Idea of proof.* And here is an equation:

$$a^2 + b^2 = c^2.$$

This concludes the proof.

□

Use `align` or `multline` for displayed equations.

3. Full list of theorem environments defined:

```
\newtheorem{proposition}{Proposition}[section]
\newtheorem{lemma}[proposition]{Lemma}
\newtheorem{corollary}[proposition]{Corollary}
\newtheorem{theorem}[proposition]{Theorem}
\newtheorem{definition}[proposition]{Definition}
\newtheorem{remark}[proposition]{Remark}
\newtheorem{example}[proposition]{Example}
\newtheorem{exercise}[proposition]{Exercise}
```

4. Use `\note` command to insert notes: (THIS IS A NOTE).
5. Use understandable labels for theorems and equations, and reference them by using `\ref` or `\eqref`, see Theorem 0.1. Little hints will appear in the PDF file, this should help you.
6. You can email me your  $\text{\TeX}$  files (in which case take my preamble and put your text into it), or alternatively you can use GitHub's pull requests mechanism (<https://help.github.com/articles/using-pull-requests/>).

## 1. INTRODUCTION

## REFERENCES

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