

1 Testing a chapter¹

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1.1 Testing a section²

An elementary identity: $(a + b)^2 = a^2 + 2ab + b^2$. And a well-known identity due to Leonhard Euler in which the five most important numbers appear:

$$e^{i\pi} + 1 = 0 \quad \text{where } i := \sqrt{-1} \quad (1.1)$$

By the way, $\int_0^{2\pi} \sin(x) dx = 0 \in \mathbb{N}$, while

$$\pi \sim 3.1415926535898 \quad \int_0^{2\pi} \sin^2(x) dx = \pi \notin \mathbb{Q} \quad \sum_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}$$

$$\log(2) \sim 0.69314718055995$$

Remember also that if F and $u : \mathbb{R} \rightarrow \mathbb{R}$ are two functions such that $F(u(x)) = e^{x/n}$ then $x \mapsto u(x)$ satisfies

$$\int e^{x/n} = F(u)^n$$

(Recall that $e \notin \mathbb{Q}$). We denote by $A \setminus B$ the set

$$A \setminus B := A \cap B^c$$

The function $\exp : \mathbb{R} \rightarrow \mathbb{R}$ is defined as the unique solution of

$$u'(x) = u(x) \quad u(0) = 1$$

We denote by \tilde{V} the potential \tilde{v} multiplied by $|x|^\alpha$ ($|x| \leq 1$). Denote also

$$\sum_{n \in \mathbb{Z}'} u_n := \sum_{n \neq 0} u_n$$

$$i\hbar \partial_t u + \Delta u = 0 \Rightarrow \hat{u}(t, \xi) = e^{it\hbar^{-1}|\xi|^2} \hat{u}_0(\xi)$$

The following is mid-aligned

We use here `\startalignment[middle]`

¹ Actually for testing footnotes in a chapter header...

² Actually for testing footnotes in a section header...

We could have used also

Centered material `\midaligned{Centered material}`

- i. Testing items and footnotes³
- ii. ⁴ testing items and footnotes

And a final test⁵ of a footnote.

³ This is a silly remark...

⁴ This is a silly remark, inside an item...

⁵ This is another silly remark but outside items...

Don't forget to read thoroughly the [footnote 2](#) to see whether interaction with footnotes in chapter titles work or not. See also [equation 1.1](#).

- a. Test with `\startitem... \stopitem`. Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large-scale user; the designer should also write the first user manual.

The separation of any of these four components would have hurt T_EX significantly. If I had not participated fully in all these activities, literally hundreds of improvements would never have been made, because I would never have thought of them or perceived why they were important.

But a system cannot be successful if it is too strongly influenced by a single person. Once the initial design is complete and fairly robust, the real test begins as people with many different viewpoints undertake their own experiments.

- b. Test with `\startitem... \stopitem`

- c. Test with `\startitem... \stopitem`

See [footnote 4](#) to check whether the interaction works.

Click on this [section 1.1](#) to see whether the link is active.

Click on this [link](#) to see whether the link gets you to Euler.