

A quick guide to BfE

What is ETeX?

$\LaTeX$ (usually pronounced "LAY tek," sometimes "LAY tek," and never "LAY tex") is a mathematics typesetting program that is the standard for most professional mathematics writing. It is based on the typesetting program $\TeX$ created by Donald Knuth of Stanford University (his first version appeared in 1978). Leslie Lamport was responsible for creating $\LaTeX$, a more user friendly version of $\TeX$. A team of $\TeX$ programmers created the current version, $\TeX$ 2 ϵ .

Math vs. text vs. functions

In properly typeset mathematics variables appear in *italics* (e.g., $f(x) = x^2 + 2x - 3$). The exception to this rule is predefined functions (e.g., $\sin(x)$). Thus it is important to *always* treat text, variables, and functions correctly. See the difference between x and x , -1 and -1 , and $\sin(x)$ and $\sin(x)$. There are two ways to prevent a mathematical expression—inline or as an equation.

■ inline mathematical expressions

Inline expressions occur in the middle of a sentence. To produce an inline expression, place the math expression between dollar signs (**\$**). For example, typing `90°=90°` is the same as `\frac{\pi}{2}=\frac{\pi}{2}` radians yields $90^\circ=90^\circ$ is the same as $\frac{\pi}{2}=\frac{\pi}{2}$ radians.

1000

Equations are mathematical expressions that are given their own line and are centered on the page. These are usually used for important equations that deserve to be showcased on their own line or for large equations that cannot fit inline. To produce an inline expression, place the mathematical expression between the symbols $\backslash[$ and $\backslash]$. Typing `\[a^2+b^2=c^2]` yields

$$g = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

■ **Plugging the Leaky Bucket**

So get full-sized inline mathematical expressions use `\inlinemathdisplaystyle`. Use this sparingly. Typing

```
\inlinemathdisplaystyle \cos_n(x) \equiv \cos(x)^n
\frac{1}{x^2} \equiv x^{-2}
```

gives this $\cos_n(x) \equiv \cos(x)^n$, not this $\cos_n(x) \equiv \cos(x)^n$

```
\frac{1}{x^2} \equiv x^{-2}
```

I want this $\sum_{n=1}^{\infty} \frac{1}{n}$, not this $\sum_{n=1}^{\infty} \frac{1}{n+1}$.

Discussion

You can put images (pdf, png, jpg, or gif) in your document. They need to be in the same location as your .tex file when you compile the document. Omit `[width=*,height=]` if you want the image to be full-sized.

```
begin{figure}[ht]
\includegraphics[width=.5in]{imagename.jpg}
\caption{The (optional) caption goes here.}
end{figure}
```

Test decorations

Your text can be styled (`format(plain)`), boldface (`format(boldness)`), or underlined (`format(underline(number), number)`).

Your math can contain boldface, $\mathbf{R}$ (`\mathbf{R}`), or blackboard bold, $\mathbb{R}$ (`\mathbb{R}`). You may want to use these to express the sets of real numbers ($\mathbf{R}$ or $\mathbb{R}$), integers ($\mathbf{Z}$ or $\mathbb{Z}$), rational numbers ($\mathbf{Q}$ or $\mathbb{Q}$), and natural numbers ($\mathbf{N}$ or $\mathbb{N}$).

To have text appear in a math expression use \text. $\{0,1\} \rightarrow \{x \in \mathbb{R} : \text{mathbb{R}}\{x\} > 0 \text{ and } x \leq 1\}$ yields $\{0,1\} = \{x \in \mathbb{R} : x > 0 \text{ and } x \leq 1\}$. (Without the \text command $\mathbb{R}$ treats “and” as three variables; $\{0,1\} = \{x \in \mathbb{R} : x > 0 \text{ should be } \leq 1\}$.)

Spaces and new lines

IP₂X ignores extra spaces and new lines. For example, this sentence will look fine after it is compiled.

This sentence will look fine after it is compiled.

Leave one full empty line between two paragraphs. Place \n at the end of a line to create a new line (but not create a new paragraph).

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This
 This complex
 like
 this

Use "quadrant" to represent a paragraph from handwriting.

Comments

Use `%` to create a comment. Nothing on the line after the `%` will be typeset. `ff(x)=tanh(x)` This is the sine function.
`global f(x)=sin(x)`

Delimiters

description	command	output
parent/children	(x)	(x)
brackets	(x)	(x)
cycle between	3(x,y,z)	(x)

To make your delimiters large enough to fit the content, use them together with `\right` and `\left`. For example,

$$\left\{ \sin \left(\frac{1}{n} \right) \right\}_{n=1}^{\infty}$$

Curly braces are non-printing characters that are used to gather text that has more than one character. Observe the differences between the four expressions x^2 , $x\{2\}$, $x^{\{2\}}$, $x^{\{2\}}\}$ when typed: x^2 , x^2 , x^2 , x^{22} .

You can perform ordered and unordered lists.

<i>description</i>	<i>command</i>	<i>output</i>
unordered list	<code>\begin{itemize}</code>	
	<code>\item</code>	
	<code>Thing 1</code>	■ Thing 1
	<code>\item</code>	
	<code>Thing 2</code>	■ Thing 2
	<code>\end{itemize}</code>	
ordered list	<code>\begin{enumerate}</code>	
	<code>\item</code>	
	<code>Thing 1</code>	1. Thing 1
	<code>\item</code>	
	<code>Thing 2</code>	2. Thing 2
	<code>\end{enumerate}</code>	

Symbols (in math mode)

The Numbers

description	command	output
addition	+	+
subtraction	-	-
plus or minus	\pm	$\pm$
multiplication (times)	\times	$\times$
multiplication (dot)	\cdot	$\cdot$
division symbol	\div	$\div$
division (slash)	/	/
circle plus	\oplus	$\oplus$
circle times	\otimes	$\otimes$
equal	=	=
not equal	\neq	$\neq$
less than	<	<
greater than	>	>
less than or equal to	\leq	$\leq$
greater than or equal to	\geq	$\geq$
approximately equal to	\approx	$\approx$
infinity	\infty	∞
dots	1,2,3,\ldots	1, 2, 3, ...
dots	1+2+3+\cdots	1 + 2 + 3 + ...
fraction	\frac{a}{b}	$\frac{a}{b}$
square root	\sqrt{a}	$\sqrt{a}$
nth root	\sqrt[n]{a}	$\sqrt[n]{a}$
exponentiation	a^b	a^b
subscript	a_b	a_b
absolute value	a	$ a $
natural log	\ln(a)	$\ln(a)$
logarithms	\log_a b	$\log_a b$
exponential function	e^x \exp(x)	$e^x = \exp(x)$
degree	\deg(f)	$\deg(f)$

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