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Course Code 123: Assignment n

This .tex L^AT_EX file is the learning version, prepared by Kat Matheson.
Any questions should be directed to g3.matheson@gmail.com

For the template, simply delete everything below the comment *%%delete-me* and save your own.
Make sure to keep the `\end{document}` line, though!

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1 L^AT_EX

L^AT_EX has odd spacing.

if you write a line and continue on the next one, you might notice a problem

if you write a line and something else

and continue on the next one, you might notice it's fixed, sort of?

what if... hmmmmm

now?

how about now?

where are my spaces?

i guess i only need one...

this is normal text, **but this is bolded.**

this is normal text, *this is italicized*, and *this is emphasized*

this is normal text, and this is cool math-ish pc-looking text

this is large this is Large

this is large with spacing from

this is Large

over here

weeeeeeeeeeeeeeeee

weeeeeeeeeeeee

weeeee

2 Math

a,b,c,d,e,f,g,h,i,j,k,l,m,n,o,p,q,r,s,t,u,v,w,x,y,z

1,2,3,4,5,6,7,8,9,0

$a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z$

1, 2, 3, 4, 5, 6, 7, 8, 9, 0

$$a, b, c = 1, 2, 3 = \sum_{i=1}^j \int_0^\infty e^{ix} dx$$

greek letters for variables

$\alpha, \beta, \gamma, \sigma, \theta, \epsilon, \varepsilon$

math symbols

$\sum_{i=1}^n, \prod_{i=1}^n, \bigcap_{i=1}^n, \bigcup_{i=1}^n$

$a + b, a - b, a \pm b$

$\frac{a}{b}, a/b$

$a > b, a \geq b, a < b, a \leq b$

$a \neq b, a \sim b, a \approx b, a \simeq b$

$a \cdot b, a \times b, a * b$

a^b, a^{2b}, a^2b

a_b, a_{2b}, a_2b

$A \cup B, A \cap B, A \setminus B$

$A \subset B, A \subseteq B, A \supset B, A \supseteq B$

\in, \notin

$\forall, \exists, \implies, \impliedby, \iff$

$a \wedge b, a \vee b$

$\mathbb{P}(a + b) < \mathbb{E}(c \pm d)$

$x \in \mathbb{N}, y \in \mathbb{R}, z \notin Z, \alpha \in \mathbb{Q} \setminus (\mathbb{N} \cap \mathbb{Q}^c)$

and so on ...

and so on ...

math auto-sizing brackets

$(2 + 2)$

$[(2 + \frac{1}{2})]$

$\left\{ ((2 + 2)) > \bigcap_{i=1}^n \frac{\sum_{i=1}^n (i+1)^2}{\theta_1} \right\}$

$$\left(1 + \bigcap_{i=1}^n \frac{\sum_{i=1}^n (i+1)^2}{\theta_1} \right)$$

math comments

$a = b$ because science

$andd = e$ because

$b = c$

according to my mom

$$\begin{array}{l} x=y \\ \sim \theta-3 \text{ because i said so} \\ =z+1 \quad \text{because i said so} \\ <z+3 \quad \text{because i said so} \end{array}$$

$$(1)$$

$$\begin{array}{ll} x=2 & i=1 \\ x=3 & i=2 \end{array}$$

matrices

$$\begin{bmatrix} 0,1,2 \\ 3,4,5 \\ 6,7,8 \end{bmatrix} \begin{pmatrix} 0,1,2 \\ 3,4,5 \\ 6,7,8 \end{pmatrix}$$

cases

$$f(x)=\begin{cases} \frac{1}{2} & \text{if } x>0 \\ \theta_0 & \text{if } x=0 \\ 0 & \text{otherwise} \end{cases}$$

Examples

$$\sum_{i=1}^n \left(\frac{x_i+y_i}{2^i}\right)^{i-1}, \quad \frac{\sum_{i=1}^n x_i}{n}, \quad \frac{\int_0^1 \frac{a}{x^{-2}} \, dx}{2}$$

3 Algorithms