Contents

My LaTeX Document

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Hello! This is my first LaTeX document.
??

$$(x+1)$$

and

$$(x+3)$$

The equation $A(x) = x^2 + 4x + 3$ gives the area of the rectangle.
Superscripts

$$2x^{3x+4}$$

$$2x^{3x^{4+5}}$$

Subscripts

$$x_1$$

$$x_{1_{2_3}}$$

$$a_0, a_1, a_2, \ldots, a_{100}$$

Greek Letters

$$\pi$$

$$\Pi$$

$$\alpha$$

$$A = \pi r^2$$

Trig functions

$$y = \sin x$$

$$y = \cos x$$

$$y = \csc \theta$$

$$y = \sin^{-1} x$$

$$y = \arcsin x$$

Log functions

$$y = \log x$$

$$y = \log_5 x$$

$$y = \ln x$$

Roots

$$\sqrt{4}$$

$$\sqrt[4]{2}$$

$$\sqrt{x^2 + y^4}$$

$$\sqrt{1 + \sqrt{x}}$$

Fractions

$$\frac{2}{2}$$

About $\frac{2}{3}$. About $\dfrac{2}{3}$. About $\dfrac{2}{3}$.

$$\frac{\sqrt{x+1}}{\sqrt{x+2}}$$

The distributive property states that $a(b+c) = ab + ac$, for all $a, b, c \in \mathbb{R}$. The equivalence class of a is $[a]$.

The set A is defined to be $\{1, 2, 3\}$.

$$\$11.5$$

$$2\left(\frac{1}{x^2 - 1}\right)$$

$$2\left[\frac{1}{x^2 - 1}\right]$$

$$2\left\{\frac{1}{x^2 - 1}\right\}$$

3

$$2\left\langle \frac{1}{x^2 - 1} \right\rangle$$

$$2\left| \frac{1}{x^2 - 1} \right|$$

$$\left. \frac{dy}{dx} \right|_{x=1}$$

$$\left(\frac{1}{1 + \left(\frac{1}{1+x} \right)} \right)$$

Table:

x	1	2	3	4	5
$f(x)$	11	12	13	14	15

x	1	2	3	4	5
$f(x)$	$\frac{1}{2}$	12	13	14	15

Table 1: These values represents the function $f(x)$.

$f(x)$	$f'(x)$
$x > 0$	The function $f(x)$ is increasing.

Table 2: The relationship between $f(x)$ and $f'(x)$.

$f(x)$	$f'(x)$
$x > 0$	The function $f(x)$ is increasing.

Table 3: The relationship between $f(x)$ and $f'(x)$.

Arrays:

$$5x^2 - 9 = x + 3 \tag{1}$$
$$5x^2 - x - 12 = 0 \tag{2}$$

$$5x^2 - 9 = x + 3$$
$$5x^2 - x - 12 = 0$$

1. pencil

2. calculator

3. ruler

4. notebook

   - notes
   - homework
     (a) tests
     (b) quizzes

5. paper

- pencil

- calculator

- ruler

- notebook

A. a

B. b

C. c

   i. a

ii. b

iii. c

6. a

7. b

8. c

   pencil

   calculator

   ruler

   notebook

This will produce *italicized* text.

This will produce **bold face** text. This will produce SMALL CAPS text. This will product `typewriter font` text.

Please visit Michelle Krummel's website at My Website.

Please excuse my dear aunt Sally.

Please excuse my dear aunt Sally.

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Left

<div align="right">Right</div>

1 Linear Functions

1.1 Slop-Intercept Form

1.1.1 Example1

1.1.2 Example2

1.2 Standard Form

1.3 Point-Slope Form

2 Quadratic Functions

1. $\mathbb{R}$

2. $\mathbb{Z}$

$$y = \frac{x}{3x^2 + x + 1}$$