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# My L<sup>A</sup>T<sub>E</sub>X Document

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Hello! This is my first L<sup>A</sup>T<sub>E</sub>X 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

$$x_1$$

$$x_{1_2_3}$$

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

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

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

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  $\{1,2,3\}$ .

$$\$11.5$$

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

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

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

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

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

$$\frac{dy}{dx}\Big|_{x=1}$$

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

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.

Please excuse my dear aunt Sally.

Please excuse my dear aunt Sally.

Please excuse my dear aunt Sally.

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Please excuse my dear aunt Sally.

Please excuse my dear aunt Sally.

Please excuse my dear aunt Sally.

Center

Left

Right



# 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.  $\mathbb{Z}$

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

