Superscripts

$$2x^2$$

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

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

Subscripts

$$X_{2x^4+8_{x^3}}+3$$

$$a_0, a_1, a_2, idots, a_{100}$$

Greek letters
Π
α

$$A = \Pi x^2$$

Trig functions

$$y = \sin x$$

$$y = \csc\theta$$

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

$$y = \arcsin x$$

$$y = \log x$$

$$x = \log_5 r$$

Square roots

$$\sqrt{2}$$

Fractions $\frac{x^7}{x^8+3}$

$$\frac{x^7}{x^8+3}$$

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 sat A is defined to be $\{1, 2, 3\}$.
The movie ticket costs \$11.5

$$2\left(\frac{3+4x}{x}\right)$$

$$2\left[\frac{3+4x}{x}\right]$$

$$2\left\{\frac{3+4x}{x}\right\}$$

$$2\left\langle\frac{3+4x}{x}\right\rangle$$

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

Tables

x	1	2	3	4	5
$f(x)$	10	11	12	13	14

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

x	1	2	3	4	5
	10	11	12	13	14

Table 2: These values represent the function $f(x)$.

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

Table 3: These values represent the function $f(x)$.

ARRAYS:

$$5x^7 - 9 = x + 3 \tag{1}$$

$$\{5x^7 - 9\} = x \tag{2}$$

$$5x^7 - 9 = x \tag{3}$$