Superscripts

$$2x^2$$

$$2x^{34}$$

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

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

Subscripts

$$2x_2$$

$$2x_{34}$$

$$2x_{2x+3}$$

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

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

$$a_1, a_2, a_3, \ldots a_{100}$$

Greek letters

$$\pi$$

$$\Pi$$

$$\alpha$$

$$A = \pi r^2$$

Trigo functions

$$y = \sin x$$

$$y = \cos \theta$$

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

Log functions

$$y = \log x$$

$$y = \log_{10} x$$

$$y = \ln x$$

Roots

$$y = \sqrt{2}$$

$$y = \sqrt[3]{x}$$

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

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

Fractions

$$\frac{2}{3}$$

About $\frac{2}{3}$ is a Fraction.

About $\dfrac{2}{3}$ is a Fraction.

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