superscripts

$$2x^3$$

$$2x^{34}$$

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

subscripts

$$x_1$$

$$x_{12}$$

$$x_{x-x_4}$$

$$a_0, a_1, a_3, \ldots, a_{100}$$

Greek letters

$$\pi$$

$$\Pi$$

$$\alpha$$

$$A = \pi r^2$$

Trigonometry

$$y = \sin x$$

$$y = \csc \theta$$

$$y = \sec \theta$$

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

Log function

$$x = \log 2$$

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

$$x = \ln 5$$

root

$$\sqrt{2}$$

$$\sqrt[3]{4}$$

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

$$\sqrt{\sqrt{x^3 + y^7}}$$

Fraction

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

$$\frac{\sqrt{4}}{5}$$