

superscripts :

$$2x^34$$
$$2x^{34}$$
$$2x^{3x^4+5}$$

subscripts :

$$x_1$$
$$x_12$$
$$x_{12}$$
$$x_{1_2}$$
$$x_{1_2_3}$$
$$a_0, a_1, a_2, \ldots, a_{100}$$

Greek Letters :

$$\pi$$
$$\Pi$$
$$\alpha$$
$$A = \pi r^2$$

functions :

$$y = \sin(x)$$
$$y_2 = \tanh(x^2)$$
$$y_3 = \csc(\theta)$$
$$y = \sin^{-1}(\theta)$$
$$\arcsin(x)$$
$$\log x$$
$$\log_2 x$$
$$\ln x^2$$

Roots :

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

Fractions :

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

About $\frac{2}{3}$ of the glass is full.

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$$\frac{\sqrt{x+1}}{\sqrt[5]{\frac{c^2}{v_1}}}$$