

superscripts  $2x^3$

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

subscripts

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

Greek letters

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

Trig functions

$$y = \sin x$$
$$y = \cos x$$
$$y = \csc \theta$$
$$y = \sin^{-1} x$$

Log functions

$$y = \log x$$
$$y = \log_5 x$$
$$y = \ln x$$

Roots

$$\sqrt{2}$$
$$\sqrt[3]{2}$$
$$\sqrt{x^2 + y^2}$$
$$\sqrt{1 + \sqrt{x}}$$

Fractions

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

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

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