

superscripts

$$2x^3$$

$$2x^{11}$$

$$2x^{11+4}$$

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

subscripts

$$X_1$$

This is not that I expected X_{12}

$$X_{12}$$

$$X_{1_{21}}$$

$$X_{1_{2_3}}$$

$$N_1, N_2, N_3, \dots, N_{100}$$

$$N_1, N_2, N_3, \cdots, N_{100}$$

$$N_1, N_2, N_3, \vdots, N_{100}$$

Greek Letters

$$\pi$$

$$\Pi$$

$$\alpha$$

$$Area\ of\ Circle = \pi r^2$$

Trig Function

$$y = \sin x$$

$$y = \cos \theta$$

$$y = \csc \Theta$$

Inverse Trig Functions

$$Y = \sec^{-1} \theta$$

$$y = \arcsin \theta$$

log functions

$$y = \log x$$

$$y = \log_5 x$$

$$y = \ln x$$

Square Roots

$$\sqrt{2}$$

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

$$\sqrt{X^2 + Y^2}$$

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

Fractions

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

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

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Exercise:

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

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

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