Superscripts:
$2x^3$

$$2x^3$$

$$2x^34$$

$$2x^{34}$$

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

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

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

Subscripts:

$$2x_1$$

$$x_{12}$$

$$x_12$$

$$x_{1_2}$$

$$x_{123}$$

Greek Letters:

$$\pi$$

$$\alpha$$

$$\gamma$$

$$\delta$$

$$1$$

$$\rho$$

$$\psi$$

Area of a circle is

$$A = \pi r^2$$

Trigonometric equations:

$$y = \sin x$$

$$y = \cos x$$

$$y = \tan x$$

Logarithmic equations:

$$logx$$

$$lnx$$

$$log_5 x$$

Square root

$$\sqrt{2}$$

$$\sqrt[3]{2}$$

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

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

Fractions:

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

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

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

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

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