

superscripts:

$2x^3$
 $2x^{343}$
 $3x^{2y+3}$
 $2x^{3x^4+5}$
 $(2x+1)^2$
 $A=\pi r^2$

subscripts:

x_1
 x_{12}
 x_{2n_2}
 x_{12}
 $\alpha\beta\gamma\delta\epsilon\zeta\eta\theta\iota\kappa\lambda\mu\nu\xi\pi\rho\sigma\tau\upsilon\phi\chi\psi\omega$
 $\Gamma\Delta\Omega\Lambda\Sigma$

Trig functions:

$\sin 2x$

Log functions:

$\log_2 x$
 $\ln x$

Roots:

$\sqrt{400}$
 $\sqrt[3]{27}$
 $\sqrt[2]{x^2+\sqrt[2]{x}}$

Fractions:

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

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

$$2\frac{1}{2}$$

$$\sqrt[4]{\frac{x}{x+1}}$$

$$\{[(x+1)+y]+z^2\}$$

$$\$10.99$$

$$3\left(\frac{2}{5}\right)$$

$$3\left[\frac{2}{5}\right]$$

$$3\left\{\frac{2}{5}\right\}$$

$$\left|\frac{x}{x+1}\right|$$

$$\left.\frac{dy}{dx}\right|_{x=1}$$

x	1	2	3	4	5
$f(x)$	10	11	12	13	14

$$5x^2-9 \quad = \quad x+3$$

$$4x^2 \quad = \quad 12$$

$$x^3 \quad = \quad 3$$

$$x \quad \approx \quad \pm 1.732$$