

1 Inline & display formula

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$$A = x^2 + x \tag{1}$$

2 Superscripts

$$2x^3$$

$$2x^{34}$$

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

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

3 Subscripts

$$x_1$$

$$x_{12}$$

$$x_{123}$$

$$1$$

4 Greek letters

$\alpha, \beta, \gamma, \theta$

5 Square root

$$\sqrt{2}$$

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

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

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

6 Fractions

Inline fractions $\frac{2}{3}$ and $\frac{2}{3}$.

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

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

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

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

7 Brackets

$$(x+1)$$

$$3[2+(x+1)]$$

$$\{a,b,c\}$$

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

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

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

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

$$\{x^2$$

$$\frac{dy}{dx}\Big|_{x=1}$$

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