Superíndice: x^{23}
Subíndice: H_2O
Superíndice y subíndice: x_2^4
$\frac{abc}{12}$
$\sqrt{\frac{a}{b}}$
$\int_{x_0}^{x} f(x)dx$
$\sum_{i=1}^{n} i^2$

$$x^2 + y^2 = z^2 \tag{1}$$

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Ecuación 1

$$\begin{bmatrix} x & y & z \\ 1 & 2 & 3 \end{bmatrix} \tag{2}$$

$$\begin{cases} x + y = 43 \\ x - y = 23 \end{cases} \tag{3}$$

$$\begin{matrix} x & y & z \\ 1 & 2 & 3 \\ 4 & 5 & 6 \end{matrix} \tag{4}$$

$$\begin{pmatrix} x & y & z \\ 1 & 2 & 3 \\ 4 & 5 & 6 \end{pmatrix} \tag{5}$$

$$\begin{bmatrix} x & y & z \\ 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix} \tag{6}$$

$$\begin{vmatrix} x & y & z \\ 1 & 2 & 3 \\ 4 & 5 & 6 \end{vmatrix} \tag{7}$$

$$E = (ab)^2 \qquad E = [ab]^2 \qquad E = \{ab\}^2 \tag{8}$$

$$E = \left(\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{2}}}}} \right) \tag{9}$$

$$E = \left[\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{2}}}}} \right] \tag{10}$$

$abcm$abc m abc m

$$abc\ m$$
$$abc\,m$$
$$abc\!m$$
$$abc \qquad m$$
$$abc \qquad\quad m$$

$$a+b+\cdots+m$$
$$a+b+\ldots+m$$
$$\vdots$$
$$\ddots$$

$$\hat{a}\hat{u}\hat{i}$$
$$\vec{a}\vec{m}\vec{n}\vec{p}$$
$$\bar{a}\overline{m}$$

$$E = \underbrace{a+b+\cdots+m}_{\text{suma}}$$
$$E = \overbrace{a+b+\cdots+m}^{\text{suma}}$$

$$\sin 45^\circ \cos \tan \cot \sec \csc$$
$$\log \det \ln$$

$$\alpha\beta\gamma$$

$$expresion = expresion \qquad\qquad expresion = expresion$$
$$x^2+y^2=r^2 \qquad\qquad y-y_0=m(x-x_0)$$

$$1-\frac{x}{1!}+\frac{x(x-1)}{2!}-\frac{x(x-1)(x-2)}{3!}=$$
$$=\frac{(x-1)(x-2)}{2}-\frac{x(x-1)(x-2)}{6}=$$
$$=-\frac{(x-1)(x-2)(x-3)}{3!}-\frac{(x-1)(x-2)(x-3)}{3!}$$