

## Gleichungen

$$y = m \cdot x + b$$

$$x^2 = y^2 + z^2$$

$$E = m \cdot c^2$$

$$y = m \cdot x + b$$

$$x^2 = y^2 + z^2$$

$$E = m \cdot c^2$$

$$y = m \cdot x + b$$

$$x^2 = y^2 + z^2$$

$$E = m \cdot c^2$$

$$y = m \cdot x + b$$

$$x^2 = y^2 + z^2$$

$$E = m \cdot c^2$$

$$3w = \frac{1}{2}z$$

$$3x + 9y = -12$$

$$e^{\pi i} + 1 = 0$$

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$$3x + 9y = -12$$

$$e^{\pi i} + 1 = 0$$

$$p(x) = 3x^6 + 14x^5y + 590x^4y^2 + 19x^3y^3 - 12x^2y^4 - 12xy^5 + 2y^6 - a^3b^3$$

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$$\sum_{i=1}^{\infty} \frac{1}{n^s} = \prod_p \frac{1}{1-p^{-s}}$$

$$(a^n)^{r+s} = a^{nr+ns}$$

$$A = \frac{\pi r^2}{2} = \frac{1}{2}\pi r^2$$

$$3x^2 + 9y = 3a + c$$

$$2x - 5y = 8$$

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$$3x^2 + 9y = 3a + c$$

$$2x - 5y = 8$$

### Matrices

$$\begin{vmatrix} 1 & 2 & 3 \\ a & b & c \end{vmatrix}$$

$$\begin{vmatrix} 1 & 2 & 3 \\ a & b & c \end{vmatrix}$$

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### Brackets and parentheses

$$\underbrace{a+c}_n + \underbrace{b+d}_m$$

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$$\overbrace{a+c+b+d}^{n \vee m}$$

$$\overbrace{a+c+b+d}^{n \vee m}$$

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$$\overbrace{a+c+b+d}^{n \vee m}$$

$$(x+y)$$

$$\{x+y\}$$

$$\|x+y\|$$

$$|x+y|$$

$$[x+y]$$

$$\langle x+y \rangle$$

$$(x+y)$$

$$\{x+y\}$$

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$$|x+y|$$

$$[x+y]$$

$$\langle x+y \rangle$$

## Brüche und Binomiale

$$\binom{n}{k} = \frac{n!}{k!(n-k)!}$$

$$f(x) = \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \frac{1}{6}$$

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$$f(x) = \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \frac{1}{6}$$

## Hochgestellte Zahlen und Indizes

$$a_1^2 + a_2^2 = a_3^2$$

$$\cap_{i=1}^n$$

$$\cup_{i=1}^n$$

$$\prod_{i=1}^n$$

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$$\cup_{i=1}^n$$

$$\prod_{i=1}^n$$

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$$a_1^2 + a_2^2 = a_3^2$$

$$\cap_{i=1}^n$$

$$\cup_{i=1}^n$$

$$\prod_{i=1}^n$$

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$$a_1^2 + a_2^2 = a_3^2$$

$$\cap_{i=1}^n$$

$$\cup_{i=1}^n$$

$$\prod_{i=1}^n$$

$$\prod_{i=1}^n$$

$$(a^n)^{r+s} = a^{nr+ns}$$

$$\int_{i=1}^n$$

$$\int_0^1 x^2 + y^2 dx$$

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$$\sum_{i=1}^{\infty} \frac{1}{n^s} = \prod_p \frac{1}{1-p^{-s}}$$

$$x^{2\alpha} - 1 = y_{ij} + y_{ij}$$

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### Symbole

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## Mathematische Operatoren

$$S = \{z \in \mathbb{C} \mid |z| < 1\} \quad \text{and} \quad S_2 = \partial S$$

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$$\lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

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$$\lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

$$\sin(a + b) = \sin(a) \cos(b) + \cos(a) \sin(b) \quad x \in M_R$$

$$\sin(a + b) = \sin(a) \cos(b) + \cos(a) \sin(b)$$

$$\sin(a + b) = \sin(a) \cos(b) + \cos(a) \sin(b) \quad x \in M_R$$

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## Chemische Formeln

 $x \in M_R$ 
