

1 Mathematics

1.1 Inline formulas

Inline formula: $a^2 + b^2 = \sqrt{c}$. The formula is part of text. Another possibility: $\int_a^b \sin(x)dx$. Yet another possibility:

1.2 Sub- and superscript

$$a_{bc}, a_{bc} a^{bc}, a^{bc} \prod_c^d$$

$$a_{\text{Some Text}}$$

$$a_{\text{Some Text}}$$

$$a_{\text{SomeText}}$$

$$a_{\text{Some Text}}$$

$$abcde$$

1.3 Fractions

$$\frac{a+b}{c+d}$$

$$\frac{a+b}{c+d}$$

$$\frac{a+b}{c+d}$$

$$\frac{a+b}{c+d}$$

1.4 Binomia

$$\binom{a+b}{c+d}$$

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$$\binom{a+b}{c+d}$$

1.5 General factions

$$\frac{\text{numerator}}{\text{denominator}} \left\{ \frac{\text{numerator}}{\text{denominator}} \right\} \left\{ \frac{\text{numerator}}{\text{denominator}} \right\}$$

1.6 Continued fractions

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

1.7 Basic objects

- Operators: `mathop`
- Binary Operators: `mathbin`
- Relation symbols: `mathrel`
- Brackets: `mathopen`, `mathclose`
- Punctuation symbol: `mathpunct`
- Parts of formula: `mathinner`

$$\operatorname{sgn}(a \cdot b) = \operatorname{sgn}(a) \cdot \operatorname{sgn}(b) \quad (1)$$

$$A = (3 \times 3) \quad \operatorname{Tr}_i(A) = \sum_{i=1}^3 A_{i,j} \quad (2)$$

$$A \rho \begin{pmatrix} a & b \\ c & d \end{pmatrix} \leftrightarrow A \rho \begin{pmatrix} a & b \\ c & d \end{pmatrix}$$

1.8 Objects below/above each

$$f(x) \stackrel{?}{=} g(x)$$

$$\sum_{\substack{i=1 \\ i \neq j}}^{\infty} x_i$$

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1.9 'Over' and 'under' symbols

$$\overline{v} \quad \underbrace{v}_{\text{superscript}} \quad x + y$$

2 Tables

2.1 Tabbing text

```
read(value)
if vaule < 0
  then print("Are you sure?")
  else if value=0
    then stop
  fi
fi
```

2.2 Basic tables

Blah blah	aaa this is a column with a given width e	bbb === ccc ddd f === gh	Meow - meow
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