

We do this with the double-angle formula

```
\begin{align*}
\cos(2\theta) &= \cos^2(\theta) - \sin^2(\theta),
\end{align*}
```

which we can rewrite as

```
\begin{align*}
&= \cos^2(\theta) - (1 - \cos^2(\theta))\\
&= 2\cos^2(\theta) - 1.
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The double-angle formula can now be rewritten as

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The double-angle formula can now be rewritten as

$$\cos(2\theta) = \cos^2(\theta) - \sin^2(\theta) \tag{1}$$

$$= 2\cos^2(\theta) - 1. \tag{2}$$

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Also in use

math/also-in-use

```
AA \(\sqrt{2}\)\n
BB \[\sqrt{3}\]\n
CC $$ \sqrt{4} $$
```

AA  $\sqrt{2}$  BB

$\sqrt{3}$

CC

$\sqrt{4}$



## Formulas: Arrows and operators

math/arrows

```
\DeclareMathOperator{\Image}{Image}
```

```
a \iff b, a\implies b, a\mapsto b
```

```
\lim_{x\to 0}\frac{\sin(x)}{x} = 1
```

```
\Image(f) = \mathbb{R}_{\geq 0}
```

$$a \iff b, a \implies b, a \mapsto b$$

$$\lim_{x \rightarrow 0} \frac{\sin(x)}{x} = 1$$

$$\text{Image}(f) = \mathbb{R}_{\geq 0}$$

## Formulas: The basics

math/basics

Formula	Code		Formula	Code	
$\sqrt{2}$	<code>\$</code>	<code>\$</code>	$\sqrt[3]{8}$	<code>\$</code>	<code>\$</code>
$\frac{2}{3}$	<code>\$</code>	<code>\$</code>	$x_1$	<code>\$</code>	<code>\$</code>
$6 \geq 3$	<code>\$</code>	<code>\$</code>	$x_1^2$	<code>\$</code>	<code>\$</code>
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<hr/>			
<code>\$ x^22 \$: <math>x^2</math></code>			

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math/basics

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`$ x^{22} $`:  $x^{22}$  | `$ x^{22} $`:  $x^{22}$

```
\usepackage{commath}
```

```
\dod{\sin(x)}{x}, \dod{f(x,y)}{x}, \partial_x f
```

```
\int_0^{\infty} e^{-x} \dif x = 1
```

$$\frac{d \sin(x)}{dx}, \frac{\partial f(x,y)}{\partial x}, \partial_x f$$

$$\int_0^{\infty} e^{-x} dx = 1$$

## Equation

math/equation

The trigonometric identity is

```
$ \sin^2(\theta) + \cos^2(\theta) = 1 $.
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\begin{equation}  
  \sin^2(\theta) + \cos^2(\theta) = 1.  
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$$\sin^2(\theta) + \cos^2(\theta) = 1. \quad (1)$$

## Formulas

`math/inline`

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math/inline

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# Formulas

math/inline

The trigonometric identity is  $\sin^2(\theta) + \cos^2(\theta) = 1$ .

The trigonometric identity  
is `$ \sin^2(\theta) + \cos^2(\theta) = 1 $`.

```
\usepackage{amsmath,amssymb}  
\usepackage{commath,mathtools}
```

## Delimiter point

math/left-right-delimiter-point

```
\begin{align*}
  \left.\left[x^2\right]\right|_{x=0}^{x=2} = 4
\end{align*}
```

$$\left[x^2\right]\bigg|_{x=0}^{x=2} = 4,$$

## Left-right

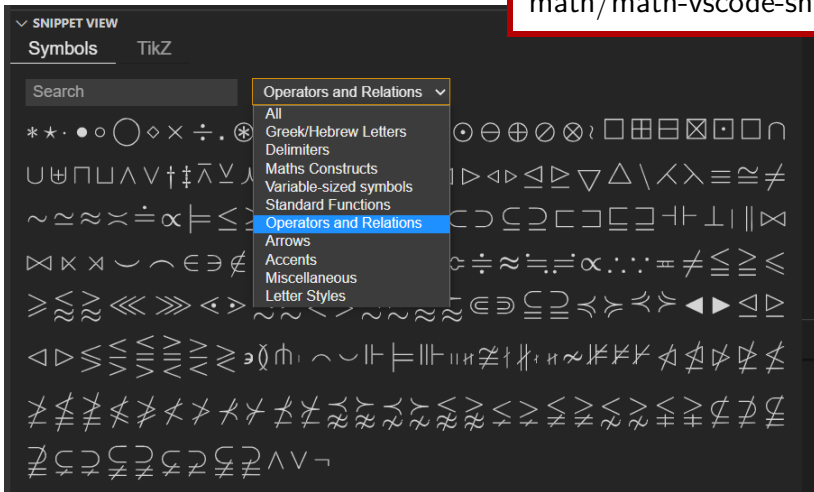
math/left-right

```
\begin{align*}
&f(\sum_{i=1}^n x_i) \\
&f\left(\sum_{i=1}^n x_i\right)
\end{align*}
```

$$f\left(\sum_{i=1}^n x_i\right)$$

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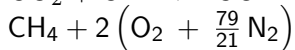
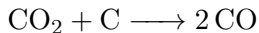
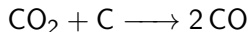
math/math-vscode-snippet-view



## Chemical formulas `\usepackage{mhchem}`

math/mhchem

```
\ce{CO2 + C -> 2 CO}\\  
$\ce{CO2 + C -> 2 CO}$\\  
\ce{CH4 + 2 $\left(\ce{O2 + 79/21 N2}\right)$}  
%$\ce{CH4 + 2 \left(\ce{O2 + 79/21 N2}\right)}$ % Error
```



Some examples are taken from the `mhchem` package documentation (see below)

More example can be found in the documentation of `mhchem`, see

<https://ctan.org/pkg/mhchem>

## Formulas: Mathematical relations

math/rerelations

Formula	Code	Formula	Code
$a \leq b$	<code>\$ a \leq b \$</code>	$a \geq b$	<code>\$ a \geq b \$</code>
$a < b$	<code>\$ a &lt; b \$</code>	$a > b$	<code>\$ a &gt; b \$</code>
$a \ll b$	<code>\$ a \ll b \$</code>	$a \gg b$	<code>\$ a \gg b \$</code>
$a = b$	<code>\$ a = b \$</code>	$a \simeq b$	<code>\$ a \simeq b \$</code>
$a \neq b$	<code>\$ a \neq b \$</code>	$a \approx b$	<code>\$ a \approx b \$</code>
$a \sim b$	<code>\$ a \sim b \$</code>	$a \stackrel{*}{=} b$	<code>\$ a \stackrel{*}{=} b \$</code>

```
\begin{align*}
R(\theta) &= \begin{pmatrix} \cos(\theta) & -\sin(\theta) \\ \sin(\theta) & \cos(\theta) \end{pmatrix} \\
\abs{x} &= \begin{cases} x & \text{if } x \geq 0 \\ -x & \text{if } x < 0 \end{cases}
\end{align*}
```

$$R(\theta) = \begin{pmatrix} \cos(\theta) & -\sin(\theta) \\ \sin(\theta) & \cos(\theta) \end{pmatrix}, \quad |x| = \begin{cases} x & \text{if } x \geq 0 \\ -x & \text{if } x < 0 \end{cases}$$

## Subscript/superscript: Inzichts vragen

math/subscript-superscript-inzicht

**Foutief**

`\vec{F}_{tot}`

**Correct**

**Foutief**

**Hint**

**Correct**

**Code A**

**Code B**



## Subscript/superscript: Inzichtsfragen

math/subscript-superscript-inzicht

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$\vec{F}_{tot}$

Correct

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$\vec{F}_{tot}$

Foutief

`\vec{F}_{\{\text{tot}\}}`



Hint

`\vec{abc}`

$\vec{abc}$   $\vec{abc}$

Correct



Code A



Code B



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Foutief

`\vec{F}_{tot}`

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$F_{tot}$   $\vec{F}_{tot}$

Hint

`\vec{abc}`

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Correct

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$\vec{F}_{tot}$   $\vec{F}_{tot}$

Code A

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**Correct**     `\vec{F}_{\text{tot}}`      $\vec{F}_{\text{tot}}$

**Foutief**     `\vec{F}_{\{\text{tot}\}}`      $F_{\text{tot}}^{\rightarrow}$   $F_{\text{tot}}^{\rightarrow}$

**Hint**     `\vec{abc}`      $a\vec{bc}$   $a\vec{bc}$

**Correct**     `\vec{F}_{\text{tot}}`      $\vec{F}_{\text{tot}}$   $\vec{F}_{\text{tot}}$

**Code A**     `x_0^2`

**Code B**     `{x_0}^2`

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math/subscript-superscript-inzicht

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**Code A**     `x_0^2`      $x_0^2$

**Code B**     `{x_0}^2`      $x_0^2$

So many! And there are lots more :-)

CTAN symbol list:

<http://mirrors.ctan.org/info/symbols/comprehensive/symbols-a4.pdf>

Detexify:

<http://detexify.kirelabs.org/classify.html>

# Formulas: Symbols

math/symbols

Formula	Code		Formula	Code
$x_1, \dots, x_n$	$\$$	$\$$	$5 \cdot 6$	$\$$ $\$$
$\alpha, \beta, \gamma$	$\$$	$\$$	$A, B, \Gamma$	$\$$ $\$$
$\epsilon, \varepsilon$	$\$$	$\$$	$\mathcal{P}$	$\$$ $\$$
$\phi, \varphi$	$\$$	$\$$	$\mathbb{P}$	$\$$ $\$$

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$\alpha, \beta, \gamma$	<code>\$ \alpha, \beta, \gamma \$</code>	$A, B, \Gamma$	<code>\$ A, B, \Gamma \$</code>
$\epsilon, \varepsilon$	<code>\$ \epsilon, \varepsilon \$</code>	$\mathcal{P}$	<code>\$ \mathcal{P} \$</code>
$\phi, \varphi$	<code>\$ \phi, \varphi \$</code>	$\mathbb{P}$	<code>\$ \mathbb{P} \$</code>

# Formulas: Symbols

math/symbols

Formula	Code	Formula	Code
$x_1, \dots, x_n$	<code>\$ x_1, \dots, x_n \$</code>	$5 \cdot 6$	<code>\$ 5\cdot 6 \$</code>
$\alpha, \beta, \gamma$	<code>\$ \alpha, \beta, \gamma \$</code>	$A, B, \Gamma$	<code>\$ A, B, \Gamma \$</code>
$\epsilon, \varepsilon$	<code>\$ \epsilon, \varepsilon \$</code>	$\mathcal{P}$	<code>\$ \mathcal{P} \$</code>
$\phi, \varphi$	<code>\$ \phi, \varphi \$</code>	$\mathbb{P}$	<code>\$ \mathbb{P} \$</code>

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math/symbols

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$\alpha, \beta, \gamma$	<code>\$ \alpha, \beta, \gamma \$</code>	$A, B, \Gamma$	<code>\$ A, B, \Gamma \$</code>
$\epsilon, \varepsilon$	<code>\$ \epsilon, \varepsilon \$</code>	$\mathcal{P}$	<code>\$ \mathcal{P} \$</code>
$\phi, \varphi$	<code>\$ \phi, \varphi \$</code>	$\mathbb{P}$	<code>\$ \mathbb{P} \$</code>

math/text

*sin*(*x*)

$\vec{F}_{tot}$

```
$ sin(x) $  
$ \vec{F}_{tot}$
```

sin(*x*)

$\vec{F}_{tot}$

```
$ \sin(x) $  
$ \vec{F}_{\text{tot}}$
```

# Formulas: Vectors

math/vectors

Formula	Code	Formula	Code
$\vec{x}$	<code>\$ \vec{x} \$</code>	$\vec{F}_{\text{tot}}$	<code>\$ \vec{F}_{\text{tot}} \$</code>
$\mathbf{x}$	<code>\$ \mathbf{x} \$</code>	$\hat{i} + 6\hat{k}$	<code>\$ \hat{i} + 6\hat{k} \$</code>
$\ \vec{x}\ $	<code>\$ \ \vec{x}\  \$</code>	$\nabla \times \mathbf{A}$	<code>\$ \nabla \times \mathbf{A} \$</code>

$$\vec{F}_{tot}, \vec{F}_{\text{tot}}$$