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### **Brackets and Parentheses**

Parentheses and brackets are very common in mathematical formulas. You can easily control the size and style of brackets in LAT<sub>E</sub>X, this article explains how.

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## Introduction

The size of the brackets can be manually set, or they can be resized dynamically in your document, as shown in the next example:

```
\left \{
 \begin{tabular}{ccc}
 1 & 5 & 8 \\
  0 & 2 & 4 \\
  3 & 3 & -8
 \end{tabular}
\right \}
```

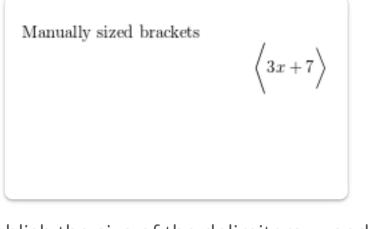
In a LaTeXdocument the brackets are re-sized automatically

Notice that to insert the brackets, the \left and \right commands are used. Even if you are using only one bracket *both* commands are mandatory.

# Controlling types and sizes

The size of the brackets can be controlled explicitly

```
Manually sized brackets
\Bigg \langle 3x+7 \bigg \rangle
```



The commands \Bigg and \bigg stablish the size of the delimiters < and > respectively. For a complete list of parentheses and sizes see the reference guide.

# Reference guide

IAT <sub>E</sub> X markup	Renders as
\big( \Big( \bigg( \Bigg(	((((
\big] \Big] \bigg] \Bigg]	]]]]
\big\{ \Big\{ \bigg\{ \Bigg\{	{{{{
\big \langle \Big \langle \bigg \langle \Bigg \langle	$\langle\langle\langle\langle\langle$
\big \rangle \Big \rangle \bigg \rangle \Bigg \rangle	$\rangle\rangle\rangle$

### Further reading

- Mathematical expressions
- Subscripts and superscripts • Aligning equations with amsmath
- Display style in math mode
- Operators
- The not so short introduction to LATEX  $2_{\mathcal{E}}$

G+ (7)