

$$F = m \cdot a$$

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$$F = m * a$$

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### 3 Mathematical Equations

Simple equations, like  $x^y$  or  $x_n = \sqrt{a+b}$  can be typeset right in the text line by enclosing them in a pair of single dollar sign symbols. Don't forget that if you want a real dollar sign in your text, like \$2000, you have to use the `\$` command.

A more complicated equation should be typeset in *displayed math* mode, like this:

$$z \left( 1 + \sqrt{\omega_{i+1} + \zeta - \frac{x+1}{\Theta+1} y + 1} \right) = 1$$

The "equation" environment displays your equations, and automatically numbers them consecutively within your document, like this:

$$\left[ \mathbf{X} + a \geq \hat{a} \sum_i^N \lim_{x \rightarrow k} \delta C \right] \quad (1)$$

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$$z \cdot \left( 1 + \sqrt{\omega_{i+1} + \zeta - \frac{x+1}{\Theta+1} y + 1} \right) = 1$$

The "equation" environment displays your equations, and automatically numbers them consecutive within your document, like this:

$$\left( \mathbf{X} + a \geq \underline{a} \cdot \sum_{i=0}^N \lim_{x \rightarrow k} \delta C \right) \quad (1)$$