Inline (within text) formulas

The equation $x + x = 2x$ is inside a text, which uses the TEX shorthand. In addition, an equation can be written like $x \cdot x = x^2$ as well, using the LATEX shorthand. Finally, the environment *math* can be used like this $a^2 + b + c = 0$.

Displayed equations

The recommended syntax to render a floating equation is to use the syntax below.

$$a \cdot x = ax$$

The use of the syntax *$$···$$* should be avoided, because, it will modify vertical spacing within equations, rendering them inconsistent.

Finally, the environment *displaymath* produces the same effect.

$$x^2 \cdot x^2 = x^4$$