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 $a^2 + b + c = 0$.

We can force symbols to be displayed like displayed formula. For example the formula $\sum_{k=0}^{10} k$ can be written $\sum_{k=0}^{10} k$ as well. The sum symbol is taller within a sentence using the command |displaystyle|.

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 $\$\$\cdots\$\$$ should be avoided, because, it will modify vertical spacing within equations, rendering them inconsistent.

Finally, the environment displaymath produces the same effect.

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

Equation numbering

The environment equation automatically numbers the equations.

$$f(x) = (x+a)(x+b) \tag{1}$$