As a first exercise, type your own name here, with all the special symbols used in your language [1]: Mikus Dániel

There are various possibilities for typesetting mathematical content. Whilein the text, characters $\sum$ and $\int$ are smaller ("squeezed"). These two inline math modes were created in two different ways.

Using displayed equations we get a much nicer result:

$$\int_{a^2}^{\sqrt{b}} \ln\left(\overbrace{\overline{x} \times \overline{y}}^{\text{Cross product}}\right) dx,$$

Yet another type of displayed (but still not numbered) equation:

$$\vec{x} \cdot \vec{y} = \sum_i x_i y_i = |x| \cdot |y| \cdot \cos \angle_{xy}$$

If we want to give a number to the equation, we need to use another envi-ronment:

$$\sigma(\nu) = const \cdot \frac{\frac{dv}{2\pi}}{(\nu - \nu_0)^2 + \left(\frac{\triangle\nu}{2}\right)^2} \tag{1}$$

(Note that no page number is present in this page.)

[1] In my case it is Mikus Dániel, that is, is contains á