

$$x^n + y^n = z^n$$

The formula of

$$(a + b)^2$$

$$a^2 + b^2 + 2ab = (a + b)^2 \tag{1}$$

$$(x + y)^2$$

$$x^2 + y^2 + 2xy = (x + y)^2 \tag{2}$$

This is a simple math expression $\sqrt{x^2 + 1}$ inside text. And this is also the same: $\sqrt{x^2 + 1}$ but by using another command. This is a simple math expression without numbering

$$\sqrt{x^2 + 1}$$

separated from text. This is also the same:

$$\sqrt{x^2 + 1}$$