Exercise - Creating simple equation

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Tasks to be performed

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1. Execute

$$ds^2 = dx_1^2 + dx_2^2 + dx_3^2 - c^2 dt^2$$

2. Write the equation for square of a+b.

Demonstration

Testing notation for limits

The well known Pythagorean theorem $x^2+y^2=z^2$ was proved to be invalid for other exponents. Meaning the next equation has no integer solutions:

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

$$ds^2 = dx_1^2 + dx_2^2 (1)$$

Equation 1 represents square.

$$\sqrt{4} = 2 \tag{2}$$

$$\sum_{i=0}^{n} x_i \tag{3}$$

$$\sqrt[n]{\frac{x}{y}} \tag{4}$$

$$\frac{\sin \theta}{\cos \theta} = \tan \theta \tag{5}$$

$$\alpha^3 + \beta^3 = \gamma^3 \tag{6}$$

$$\int_{a}^{b} x^{2} dx \int_{a}^{b} \tag{7}$$

$$f'(x) = \lim_{h \to 0} \frac{f(x+h) - f(x)}{h} \partial^2$$
 (8)

$$\partial^2 \psi$$
 (9)

$$\begin{pmatrix} 1 & 2 & 3 \\ a & b & c \end{pmatrix} \begin{pmatrix} a & b \\ c & d \end{pmatrix} \sqrt{4} = 2 \tag{10}$$

$$\sum_{i=0}^{n} x_i \tag{11}$$

$$\sqrt[n]{\frac{x}{y}} \tag{12}$$

$$\frac{\sin \theta}{\cos \theta} = \tan \theta \tag{13}$$

$$\alpha^3 + \beta^3 = \gamma^3 \tag{14}$$

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$$\int_{a}^{b} x^{2} dx \int_{a}^{b} \tag{15}$$

$$f'(x) = \lim_{h \to 0} \frac{f(x+h) - f(x)}{h} \partial^2$$
(16)

$$\partial^2 \psi \tag{17}$$

$$\begin{pmatrix} 1 & 2 & 3 \\ a & b & c \end{pmatrix} \begin{pmatrix} a & b \\ c & d \end{pmatrix} \tag{18}$$