

The original expression has the form

$$x^{x^{x^x}}$$

By simple mathematical transformations:

$$x^{x^{x^x}}$$

counted the most obvious derivative, which the Soviet spermatozoa were actually able to calculate in their minds, we get:

$$x^{x^{x^x}} \cdot \left( x^{x^x} \cdot \left( x^x \cdot \left( 1 \cdot \ln x + x \cdot \frac{1}{x} \cdot 1 \right) \cdot \ln x + x^x \cdot \frac{1}{x} \cdot 1 \right) \cdot \ln x + x^{x^x} \cdot \frac{1}{x} \cdot 1 \right)$$

simple mathematical transformations:

$$x^{x^{x^x}} \cdot \left( x^{x^x} \cdot \left( x^x \cdot \left( \ln x + x \cdot \frac{1}{x} \right) \cdot \ln x + x^x \cdot \frac{1}{x} \right) \cdot \ln x + x^{x^x} \cdot \frac{1}{x} \right)$$