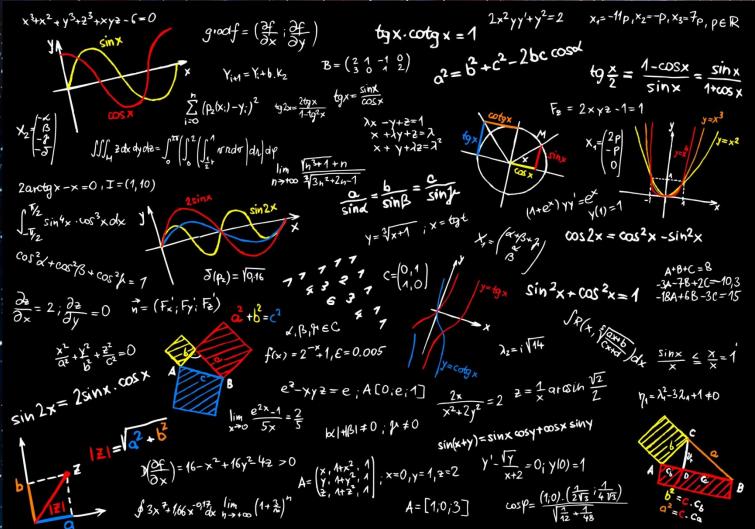
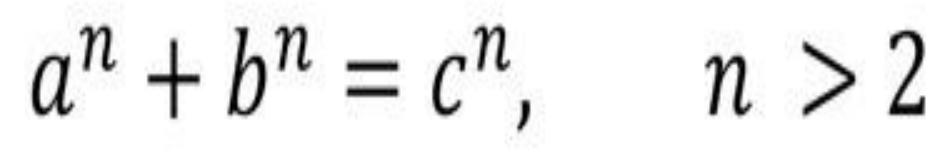
The most attractive mathematical formulas

Work performed: Artemov Stanislav Stepanova Alexandra Group №04503 Neuroscientists from the UK conducted an experiment in which 15 mathematicians were asked to evaluate the beauty of mathematical formulas by offering them a list of 60 pieces. As discovered by neuroscientists, viewing beautiful formulas, from the point of view of mathematicians, evokes a response in the prefrontal cortex of the brain responsible for complex cognitive functions and emotions.



1. Fermat's grand theorem





2.Basic Trigonometric Identity

$\cos^2\theta + \sin^2\theta = 1$



3. The Gauss-Bonnet formula

 $\int_{M} K dA + \int_{\partial M} k_g ds = 2\pi \chi(M)$



4. Cantor's theorem for natural numbers





5.Euler's formula

$e^{ix} = \cos x + i \sin x$



6.Euler's identity

