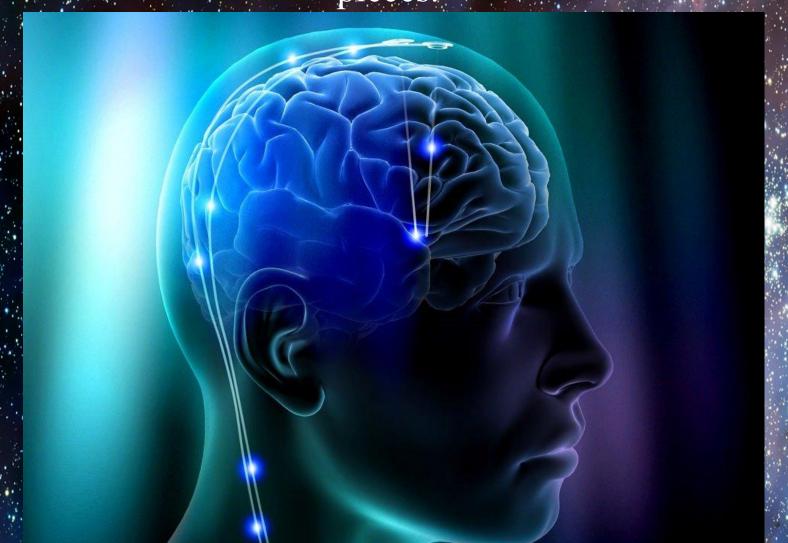
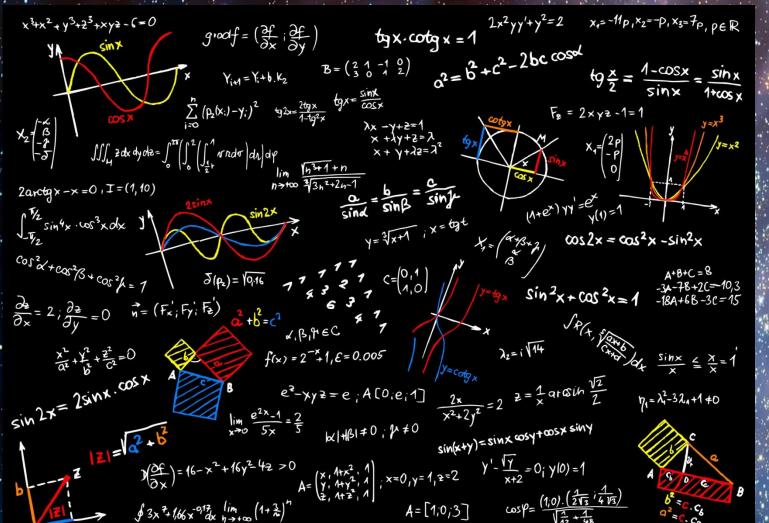
The most attractive mathematical formulas

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 $a^n + b^n = c^n$ n > 2



2.Basic Trigonometric Identity

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

$$\int_{M} KdA + \int_{\partial M} k_{g}ds = 2\pi\chi(M)$$

4. Cantor's theorem for natural numbers



5.Euler's formula

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



6. Euler's identity $e^{i\pi}$