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# Methods of Directing Students To Innovative Activities Using Mathematical Package Programs In Teaching Accounting Science Of Higher Education Institutions

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**Abstract**
This article presents methods and opportunities for higher education institutions to direct students to innovative activities using the Microsoft Mathematics and Geogebra programs in improving the effectiveness of teaching accounting science.

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## Introduction

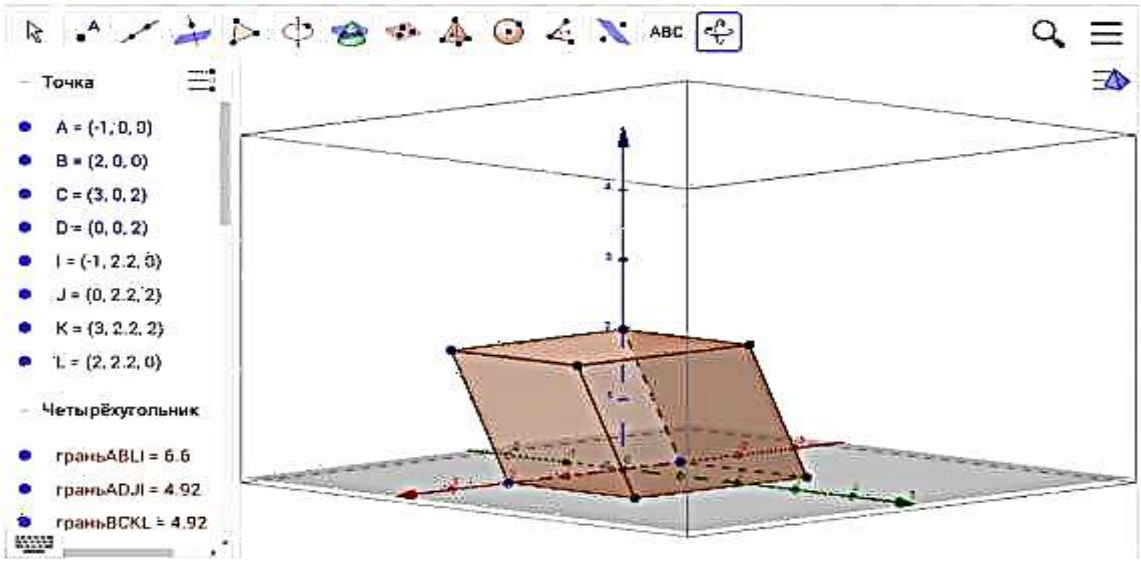
The main goal of all reforms in the field of education is to deliver a harmonious generation that has developed perfectly scientifically and spiritually. The main factor in the supply of such generations is the education and upbringing that is given to them. Today, improving the educational system, global competition requires offering educational services to increase the professional training of the learner, innovative thinking, the formation of a person's motivation for self-development and self-realization throughout life, continuous updating of cognitive constructs. Therefore, today special attention is paid to the effective use of modern technologies of Information Technology in the educational system.

In the educational system, digital technologies have opened up many opportunities in education. This certainly increased the demand of educated youth for non-traditional classes in the educational process. Nowadays, the interest of students in classes with a simple board and chalk in classes affects only a certain part of the students of the class. Therefore, the tools used in classes form the basis of the course process. This requires careful training from teachers.

Higher education institutions in higher mathematics classes there are many computer programs that are effective in the process of Education mathematical package and pedagogical software tools, which are desirable to use in improving the effectiveness of the educational process. Now let's look at the processes of operation in some mathematical package programs. “GeoGebra” offers a wide range of possibilities for working with geometric shapes, algebraic expressions, tables, graphs, statistics and arithmetic. For convenience, all functions are included in

one package. There are also tools for working with various functions, such as graphs, roots, integrals, etc

Stereometric drawing design-this program provides the ability to work in 2-and 3-dimensional space. Depending on the chosen place of work, you will get a two-dimensional or three-dimensional figure, respectively.




In the “GeoGebra” program, geometric bodies are formed using points. Each of them can be assigned certain parameters, through which a line is drawn. With the help of ready-made numbers, you can perform various manipulations, for example, determine the corners and measure the length of the lines and the intersection of the corners. Through them you can also lay sections.

Independent construction of objects – “GeoGebra” has the function of drawing a picture, which allows you to build separate objects from the main picture. For example, you can build some kind of polyphedron and distinguish any component from it - a corner, a line or several lines and corners. Thanks to this function, you can clearly indicate and talk about the features of any shape or part of it.

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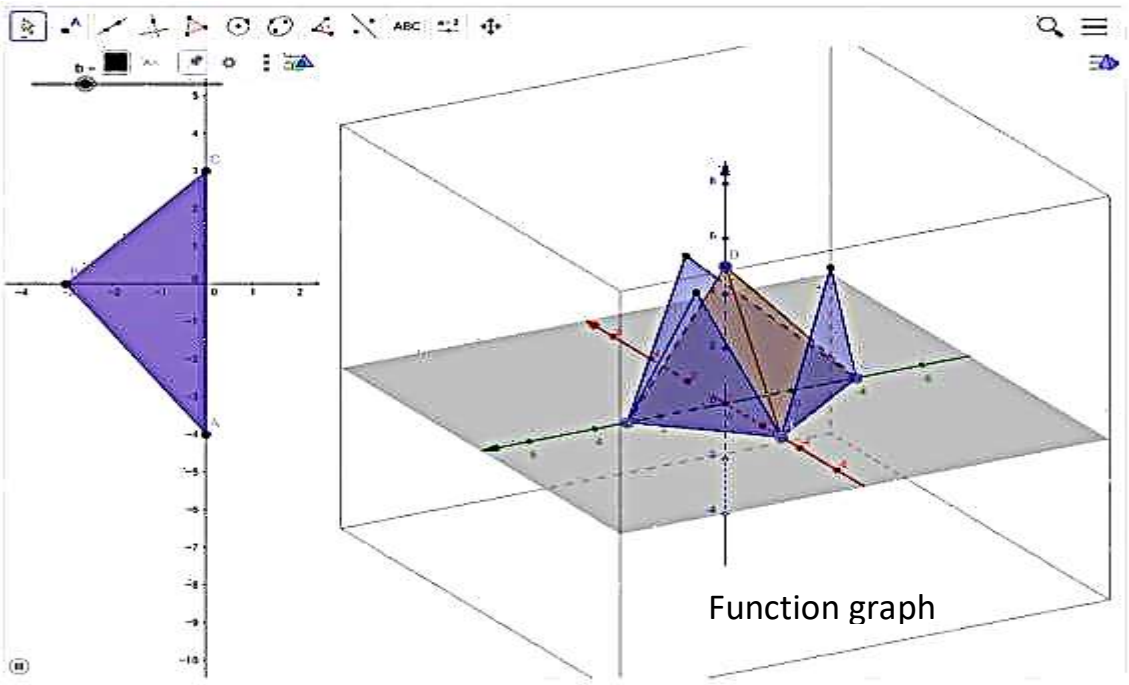
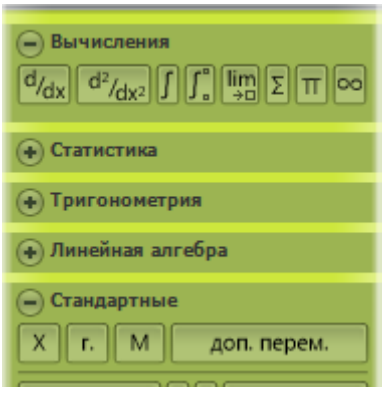



The main one for working with markup expressions in MicroSoft mathematics is the scheme kernel. It consists of hundreds of base functions and algorithms of character representations. At the same time consists of the main library of operators, commands and functions.

In total there are about 3,000 functions in MicroSoft mathematics 2014. This means that it will be possible to solve many issues in the way of direct communication with the system.

MicroSoft mathematics has the ability to solve large-scale problems without programming. It is only necessary to write an algorithm for solving problems and divide it into several pieces. In addition there are thousands of issues where solving algorithms are solved in the form of function and system commands.

MicroSoft mathematics has three different personal Languages: input, resolution, and programming. MicroSoft mathematics is an integrated programming system designed to perform mathematical and physical computations. It is a widely available system for working with formula, number, text and graphics.



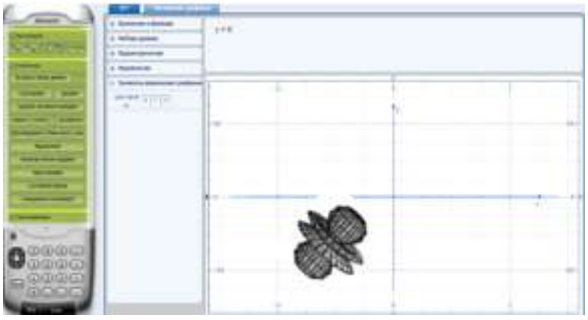

Numbers, intergrall, differential, limits, formulas, mathematical expressions in the program ... are listed in the program menu window. Whatever mathematical problems need to be solved, the command is selected and the result is obtained.

The MicroSoft mathematics system has a text editor, a powerful computing and graphics processor. Make an

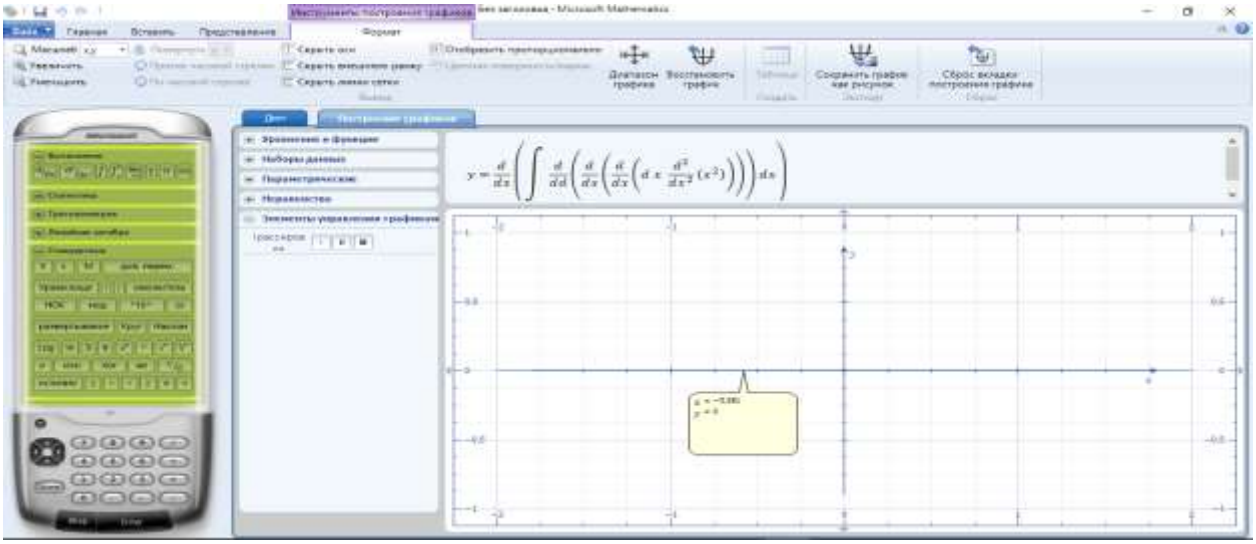
approximate shape of the electron cloud of the atom.

Quyidagi buyruqni kiriting:

```
l:=3:
P:=(x,n)->1/(2^n*n!)*diff((x^2-1)^n,x$n);
Y:=(phi)->abs(sqrt((2*l+1)/(4*Pi))*
subs(x=cos(phi),P(x,l)));
X0:=Y(phi)*sin(phi)*cos(theta);
Y0:=Y(phi)*sin(phi)*sin(theta);
Z0:=Y(phi)*cos(phi);
plot3d([X0,Y0,Z0],phi=0..Pi,theta=0..2*Pi,
scaling=CONSTRAINED, title="Elektronnoye oblako");
```



$z = \frac{1}{x^2+y^2} + \frac{0,2}{(x+1,2)^2+(y-1,5)^2} + \frac{0,3}{(x-0,9)^2+(y+1,1)^2}$ the surface is able to be made with Degree lines and solve many similar complex differential equations.



In conclusion, global digital tobacco, exponential processes, artificial intelligence-based production, smart technologies, global competition in the labor market, an increase in demand for the quality of human capital have caused fundamental changes in the main areas of society's life. In the era of digital economy, digital education requires offering educational services for the development of the creative abilities of a person, innovative thinking, the formation of the motivation of the learner for self-development and self-realization throughout life, continuous updating of cognitive constructs, the development of new labor skills, the training of competitive, socially active specialists. To this end, the use of innovative technologies in the organization of the educational process is one of the important factors in the supply of competitive personnel.

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