

Visual Mathematics in Practice



Name of the teacher:	SUDAREVIĆ IRENA
Name and address of the school:	Tehnička škola "Ivan Sarić" 24000 Subotica
Theme of the lesson:	Quadratic functions
Place in curriculum: (type of school, grade)	Secondary school
Age of the students/pupils:	2-nd class (16 years old)
Title of the lesson:	Quadratic function and properties.

Description of the lesson			
Time	Exercises, matters, parts of the lesson	Methods and forms of student activities	Developable competencies
5 min.	Introduction: Which functions do you now? What is the graph of linear function? The topic of the lesson today is the quadratic function.		Counting, drawing in two-dimensional coordinate system,
35 min.	Central part: Quadratic function can be written in the form: $y = ax^2 + bx + c, \quad a \neq 0, a, b, c \in R.$ The simplest form is : $y = x^2$. The graph is a PARABOLA. For example: 1. $y = x^2 - 6x + 5$ <ol style="list-style-type: none"> 1. $x \in R$ 2. $y = 0$ ha $x_1 = 1, x_2 = 5$ $x = 0 \Rightarrow y = 5$ 3. $T_{\min} = (\alpha, \beta) = (3, -4)$ Using this 4 points , we draw the parabola.	Using Kvadratnafunkcija.ggb file, we find out step by step this 4 points.	

5 min.	<p>2. $y = x^2 + 4x + 3$.</p> <p>The final part: homework: $y = x^2 - 4x + 5$.</p>	<p><i>work in pairs, and step by step find out :</i></p> <ul style="list-style-type: none"> - <i>The null</i> - <i>Intersection point on the y-axis</i> - <i>The extreme value of parabola</i> - <i>Graph of function</i> 	
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Summary

The lesson was interesting and successful.

Supplements

Used materials:	<i>Kvadratnafunkcija.ggb file</i>
Photos:	<i>no</i>