



ИМИ-БАН

като национална контактна точка в портала Scientix

Евгения Сендова, координатор на проекта от ИМИ-БАН

София, 1 декември, 2017

Scientix has received funding from the European Union's H2020 research and innovation programme – project Scientix 3 (Grant agreement N. 730009), coordinated by European Schoolnet (EUN). The content of the presentation is the sole responsibility of the presenter and it does not represent the opinion of the European Commission (EC) nor European Schoolnet (EUN) and neither the EC nor EUN are responsible for any use that might be made of information contained.



Проектът *Scientix*

- Подкрепя сътрудничеството между преподаватели, учени и дейци на образованието по математика, природни науки и ИТ в Европа
- Създава общоевропейска мрежа за обмен на идеи, добри практики и опит
- Осигурява дългосрочен живот в единна платформа на ценни ресурси, създадени по европейски образователни проекти



ОБЩНОСТ

Хиляди учители по STEM (наука, технологии, инженерство и математика) използват **#Scientix** за да подобрят уроците си и да се свържат!



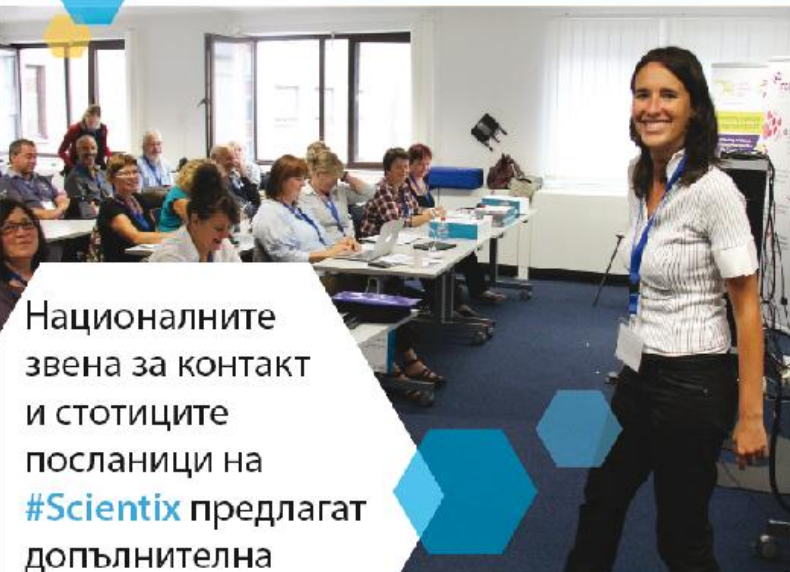
Присъединете се към общността!
www.scientix.eu



Scientix е инициатива на Европейския съюз за научно образование в областта на STEM. Проектът е финансиран от Европейския съюз и от държавите членове на ЕС. Съдържанието на този документ е изцяло отговорност на авторите и не може да се счита за отражение на позицията на Европейския съюз или на Европейската комисия (ЕК). ЕК не носи отговорност за използването на информацията, съдържаща се в този документ.



ПОДКРЕПА



Националните звена за контакт и стотиците посланици на **#Scientix** предлагат допълнителна подкрепа за вашите STEM дейности!

www.scientix.eu/in_your_country



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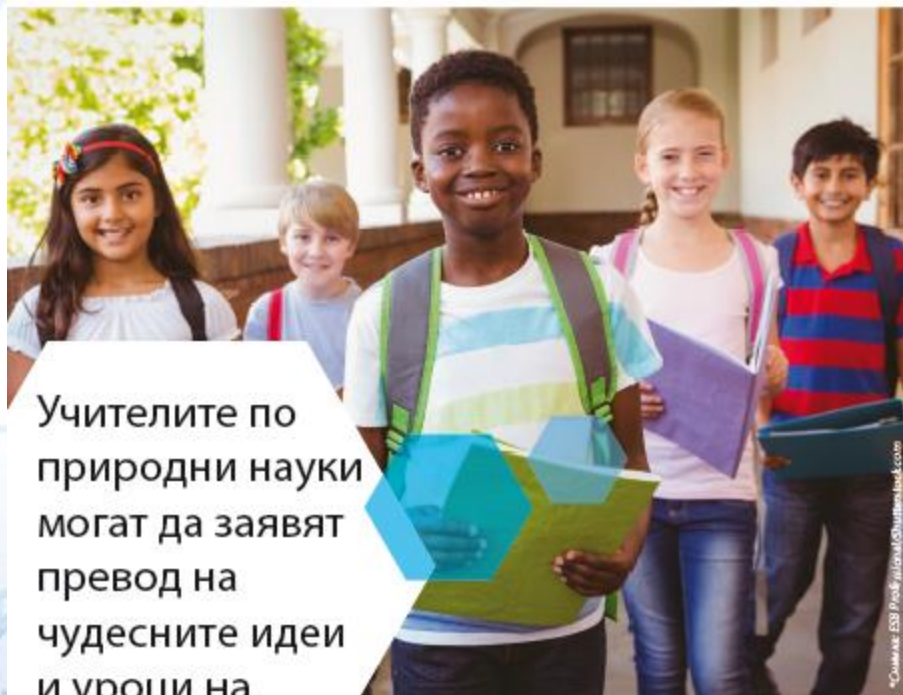
<<Presentation title>> | <<Speaker name>>
<<Date>> | <<City>>
<<Name of event>>



SCIENTIX

Общността за научно
образование в Европа

МНОГОЕЗИЧИЕ



Учителите по
природни науки
могат да заявят
превод на
чудесните идеи
и уроци на
#Scientix!

[www.scientix.eu/
request-translation](http://www.scientix.eu/request-translation)



Scientix 2 е финансиран по програмата на Европейския съюз за научни изследвания и иновации „Хоризонт 2020“ чрез Scientific Education and Training Network (SET-NE) – като координационен и структурен проект (ERC). Сътрудничеството на голямата мрежа е изключително важно за осъществяване на иновативни проекти във всички области на науката, технологиите и образованието. SET-NE е инициатива на Европейския съюз, която предоставя информация за всички проекти.



SCIENTIX

Общността за научно
образование в Европа

УЧЕБНИ РЕСУРСИ

#Scientix

Хиляди
научни учебни
ресурси от цяла
Европа за
всички
възрасти!



www.scientix.eu/resources



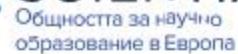
Scientix 2 е финансиран по програмата на Европейския съюз за научни изследвания и иновации „Хоризонт 2020“ чрез Scientific Education and Training Network (SET-NE) – като координационен и структурен проект (ERC). Сътрудничеството на голямата мрежа е изключително важно за осъществяване на иновативни проекти във всички области на науката, технологиите и образованието. SET-NE е инициатива на Европейския съюз, която предоставя информация за всички проекти.



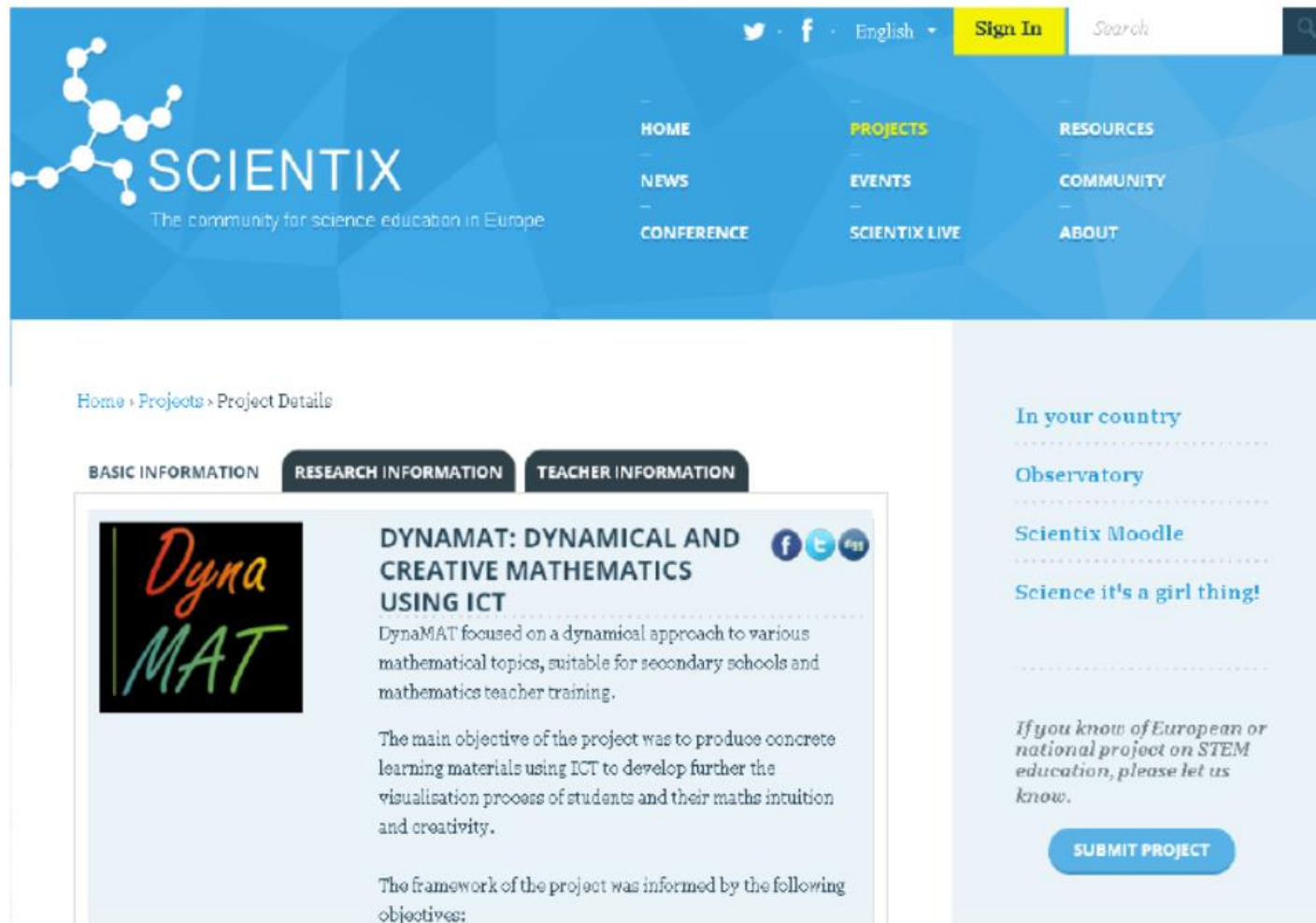
<<Name of event>>



Знаете ли вы, что в фильмах по романам на Бернса есть и герои женщины и постеры. Впервые «СВ» проанализировал Справочник по романам и фильмам Бернса (PUBS), изданному в 1997 году. Справочник не только содержит краткое описание каждого романа, но и включает в себя список фильмов, основанных на романе. В этом году мы снова вернулись к этому вопросу.

[illegible]

Scientix има хранилище на проекти



The screenshot shows the Scientix website interface. At the top, there's a blue header with the Scientix logo and tagline 'The community for science education in Europe'. Navigation links include HOME, PROJECTS (highlighted), RESOURCES, NEWS, EVENTS, COMMUNITY, CONFERENCE, SCIENTIX LIVE, and ABOUT. A search bar and 'Sign In' button are also present.

The main content area displays the 'Project Details' for 'DYNAMAT: DYNAMICAL AND CREATIVE MATHEMATICS USING ICT'. It includes a breadcrumb trail: Home > Projects > Project Details. Below this are tabs for BASIC INFORMATION, RESEARCH INFORMATION, and TEACHER INFORMATION. The project description states: 'DynaMAT focused on a dynamical approach to various mathematical topics, suitable for secondary schools and mathematics teacher training.' It also mentions the main objective: 'The main objective of the project was to produce concrete learning materials using ICT to develop further the visualisation process of students and their maths intuition and creativity.'

On the right side, there's a section titled 'In your country' with links to 'Observatory', 'Scientix Moodle', and 'Science it's a girl thing!'. At the bottom right, there's a 'SUBMIT PROJECT' button and a text prompt: 'If you know of European or national project on STEM education, please let us know.'

... и на ресурси

[Home](#) » [Resources](#)

RESOURCE REPOSITORY

Find resources by keyword

cc 

ADVANCED SEARCH

Subject

Min age

Max age

Type

Languages

Bulgarian

TEACHING MATERIALS

REPORTS LIBRARY

TRAINING COURSES

LRE MATERIALS

66 RESULTS FOUND.



★ ★ ★ ★ ★

 Add to favourites

 Report a problem

Plate Restoration

Descriptor: *computer science mathematics*

Copyright:  Age: 10-16 Project: *Muscll*

Description: *The students enter the role of archeologists and explore various tools for creating a model of a broken plate and suggest ways of restoring the original. They show how to use rotation, mirroring, etc. to restore the plate and its decoration.*

In your country

Observatory

Scientix Moodle

Science it's a girl thing!

Scientix blog

UPLOAD RESOURCES

SCIENTIX AWARDS

TRANSLATION SERVICE

Get **free** translation of learning resource materials in the Scientix repository

HOW IT WORKS

STATUS OF THE REQUESTS

OTHER REPOSITORIES

• [Learning Resource Exchange for Schools](#)

<<Name of event>>



... И то на различни езици



Home » Projects » MASCIL: Mathematics and Science for Life

MASCIL: MATHEMATICS AND SCIENCE FOR LIFE

Share this project

BASIC INFORMATION | RESEARCH INFORMATION | TEACHER INFORMATION

mascil

MASCIL (2013-2016) aims to connect inquiry-based science and mathematics education (IBSE) in schools with students' future careers and increase their interest in careers in science and technology.

Home » Resources » My entries

MY ENTRIES

DRAFT | SUBMITTED | APPROVED | REJECTED



Plate Restoration

Copyright: ⓘ Age: 10 - 10 Project: Mascil, <http://www.mascil-project.eu/>

Description: The students enter the role of archeologists and explore various tools for creating a model of a broken plate and suggest ways of restoring the original. They show how to use rotation, mirroring, etc. to restore the plate and its decoration.

DESCRIPTION | GET THIS RESOURCE



Home » Resources » Resource Details

SNOWFLAKES

Users' Tags: chemistry computer science mathematics physics

Age range: 10 - 10

Resource type: enquiry-oriented activity, exploration, lesson plan, open activity, project, tool

Creative Commons: ⓘ ⓘ ⓘ ⓘ ⓘ

Project: Mascil

Author: Toni ORENLAAROKA

SAVO

DESCRIPTION

Students are expected to make an inquiry on snowflakes from different aspects using information from the Internet, then to make a conjecture about their common features from a geometric perspective, to propose appropriate tools for making a snowflake model, and finally to produce several models (including computer ones).

IN ORDER TO SPEAK... FURTHER WORK USING THE PROPERTY OF SYMMETRY (and other dynamic geometry software) for geometrical objects (points, lines, circles, etc.) to leave a...

ADD TO FAVOURITES | REPORT A PROBLEM

DESCRIPTION | GET THIS RESOURCE

Home » Resources » Resource Details

Dynamic heart

Descriptor: computer science mathematics

Copyright: ⓘ Age: 11 - 18 Project: Mascil

Description: This scenario is about how to create a "heart" and to organize its "pulsating" in order to make an animated "Valentine's card". To do this we have to use some mathematical knowledge and GeoGebra functionality to: (i) get a heart-like shape, and (ii) organize...

ADD TO FAVOURITES | REPORT A PROBLEM

Ресурсите могат да се надгрждат



[HOME](#)
[PROJECTS](#)
[COMMUNITY](#)

[IDEAS](#)
[RESOURCES](#)
[CONFERENCE](#)

[EVENTS](#)
[SCIENTIX LINK](#)
[ABOUT](#)



Square Based Dynamic Tessellations

Descriptor: *computer science mathematics*

Copyright: ⓘ **Age:** 11 - 18 **Project:** Mascil

Description: *Dynamic tessellations based on squares and their transformation in tiles of a new shape is presented. The transformation involves rotation and translation of points on the square surface.*

★ ★ ★ ★ ★

♥ Add to favourites

🗨 Report a problem



Dynamic Tessellations Based on Regular Hexagons

Descriptor: *computer science mathematics*

Copyright: ⓘ **Age:** 11 - 18 **Project:** Mascil

Description: *Dynamic tessellations based on regular hexagons and their transformation in tiles of a new shape is presented. The transformation involves rotation and translation of points on the hexagon surface.*

★ ★ ★ ★ ★

♥ Add to favourites

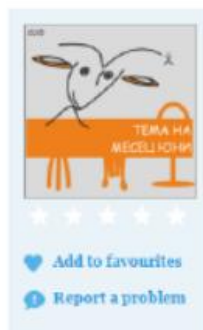
🗨 Report a problem



Наши състезания в хранилището на Scientix

TEACHING MATERIALS | REPORTS LIBRARY | TRAINING COURSES | LRE MATERIALS

89 RESULTS FOUND.



Sweets, tea and chairs

Descriptor: information and communications technology (ICT)
mathematics software

Copyright:  Age: 11 - 18 Project: Viva Cognita

Description: In this activity, students work on different kinds and quantities of pieces of different items and learn how many they could be using Geogebra.

DESCRIPTION

GET THIS RESOURCE



Viva Mathematica Competition – 2015/04: 12th grade

Descriptor: information and communications technology (ICT)
mathematics software

Copyright:  Age: 17 - 19 Project: Viva Cognita

Description: 10 problems for 12th grade (most of them accompanied by a Geogebra-file), to be solved by different sources by solver's preference - as the case with a specific problem in everyday life may be.

SERVICE

Get **free** translation of learning resource materials in the Scientix repository

HOW IT WORKS

STATUS OF THE REQUESTS

OTHER REPOSITORIES

- Learning Resource Exchange for Schools
- Open Discovery Space



Националната конференция

HCO 2014 – Националe
+

← → ↺ 🏠
math.bas.bg/omi/nso/?cat=14
📖 ☆ ≡ 📏 📢 ...

Add to the favorites bar by selecting ☆, or by getting them from another browser. [Import your favorites](#)

Видеозаписи от Националната конференция Scientix

Преди да се потопите отново в преживяното по време на Националната конференция Scientix, 7-8 декември 2014 г., да си припомним думите на д-р Агеда Грас-Веласкес, ръководител на проекта Scientix, която сподели, че ѝ е направила изключително впечатление създадената атмосфера на активност, добро разположение на духа и предизвикването на толкова много изказвания 😊

- [Дискусия „Компетентностите в дигиталния свят“](#)
- [Представяне на проекти](#)
- [S. Ceretkova – Supporting actions for teachers in promoting IBL](#)

Национална конференция Scientix



Национална конференция Scientix – България

7-8 декември 2014

ИМИ-БАН

На 7 и 8 декември 2014 г. в ИМИ-БАН се проведе **Национална конференция Scientix** за образованието по математика, информационни технологии, природни и инженерни науки.

В конференцията участваха учители, изследователи, експерти и ръководители в областта на образованието. Бяха представени и обсъдени съвременни постижения на изследователския подход в международен контекст и беше споделен опитът от използване на ресурси от платформата на **Scientix**.

[Програма на Националната конференция Scientix](#)

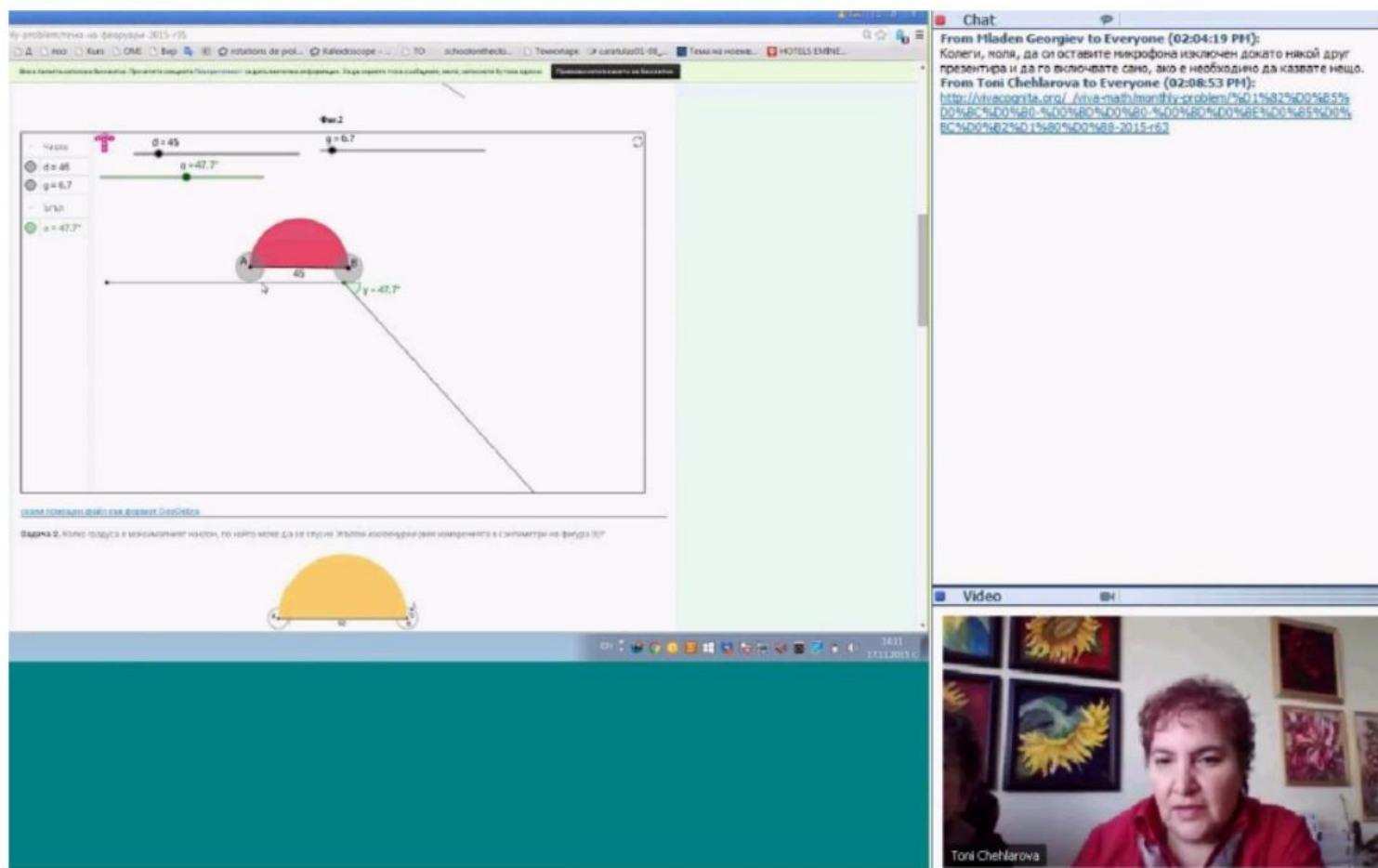


Links
^
🔊 📶 🖨️ ENG 8:56 PM 12/2/2016




<<Date>> | <<City>>
<<Name of event>>

Уебинари по Scientix



The screenshot shows a web browser window with a physics problem. The problem involves a semi-circular object of radius R and a point P on its surface. The distance from the center of the semi-circle to point P is $d = 45$. The angle between the horizontal line from the center to P and the line connecting the center to the point on the semi-circle is $\alpha = 47.7^\circ$. The problem asks for the angle β between the horizontal line and the line connecting the center to the point on the semi-circle.

Below the problem, there is a diagram of a semi-circle with a point P on its surface. The distance from the center to P is $d = 45$. The angle between the horizontal line from the center to P and the line connecting the center to the point on the semi-circle is $\alpha = 47.7^\circ$. The problem asks for the angle β between the horizontal line and the line connecting the center to the point on the semi-circle.

On the right side of the browser window, there is a chat window titled "Chat". It contains a message from Hladen Georgiev to Everyone (02:04:19 PM):

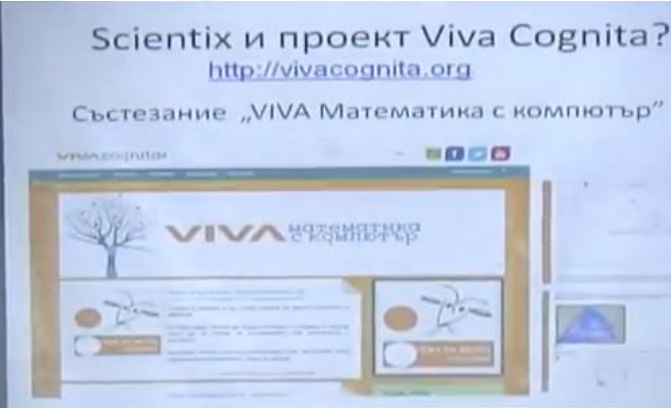
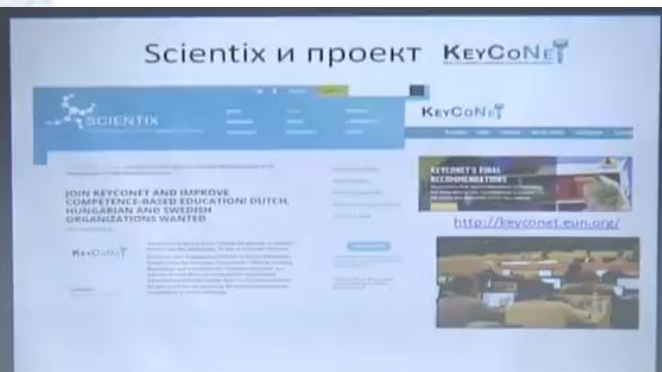
Коледи, моля, да си оставите микрофона изключен докато никой друг презентира и да го вклю-вате само, ако е необходимо да казвате нещо.

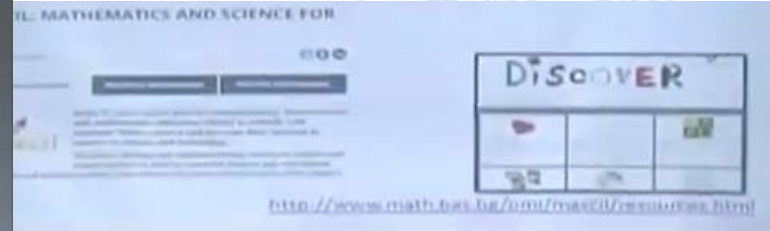
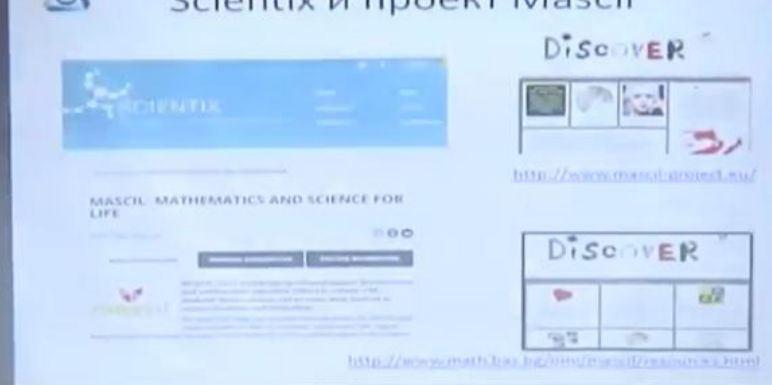
From Toni Cheharova to Everyone (02:08:53 PM):

<http://www.scientix.org/...>

Below the chat window, there is a video window titled "Video". It shows a woman, Toni Cheharova, in a video call.

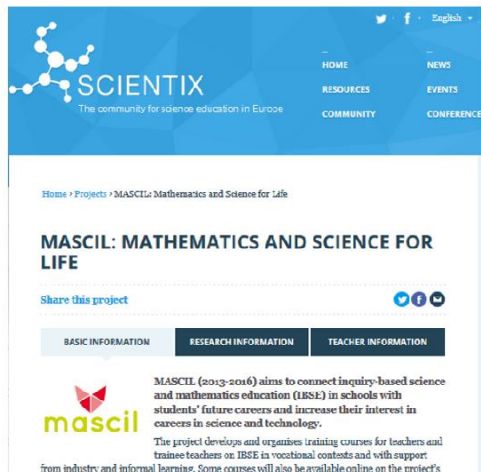
Scientix и проекти, в които ИМИ-БАН е партньор







Scientix и проект Mascil



<http://www.math.bas.bg/omi/mascil/resources.html>



<http://www.mascil-project.eu/>



Scientix и проект Viva Cognita?

<http://vivacognita.org/>

Състезание „VIVA Математика с компютър“



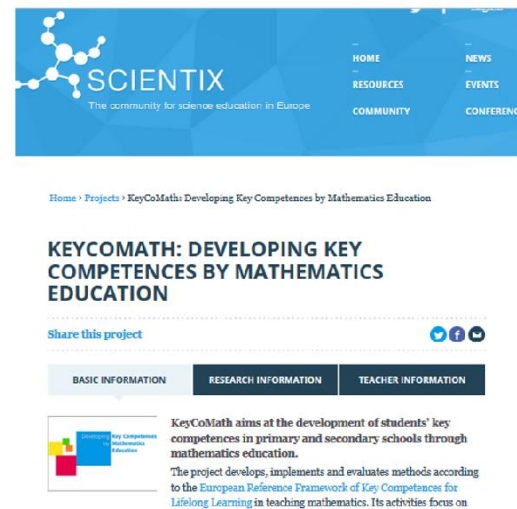
Scientix и проект KEYCoNET



<http://keyconet.eun.org/>



Scientix и проект KeyCoMath



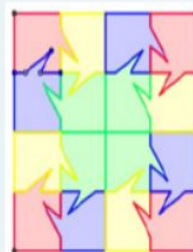
<http://keycomath.eu/>



В работилници по Scientix



В работилници по Scientix



♥ Add to favourites

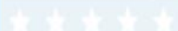
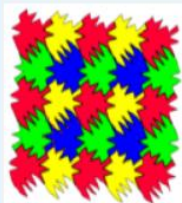
! Report a problem

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♥ Add to favourites

! Report a problem

Dynamic Tessellations Based on Regular Hexagons

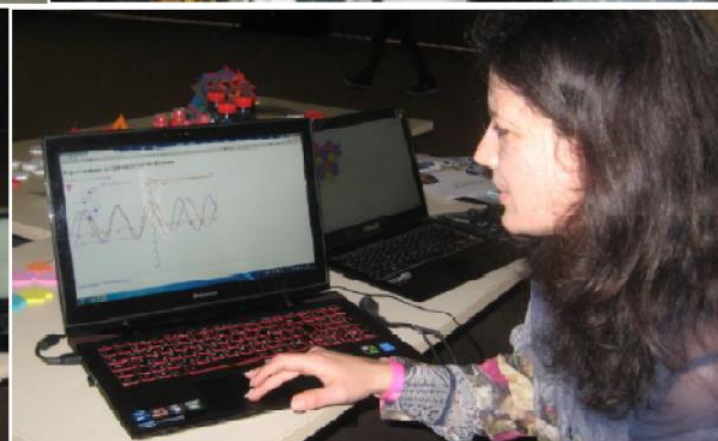
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В работилници по Scientix



В работилници по Scientix

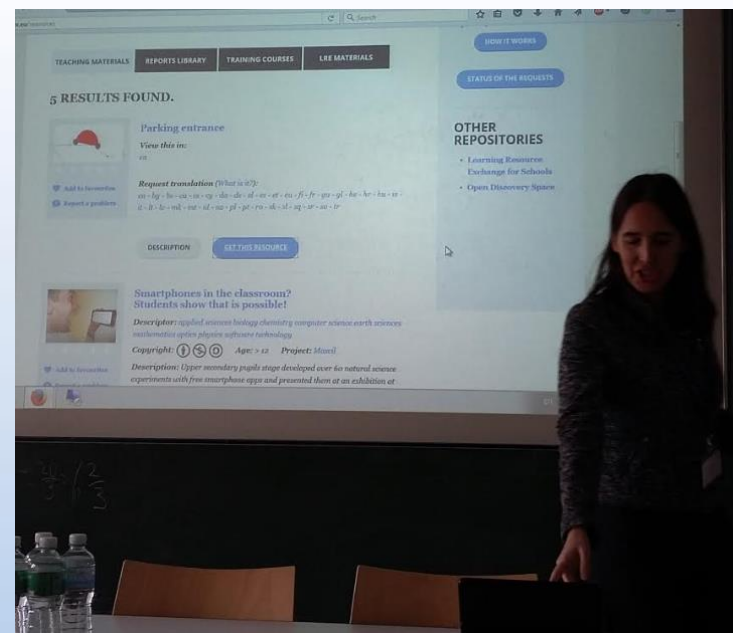
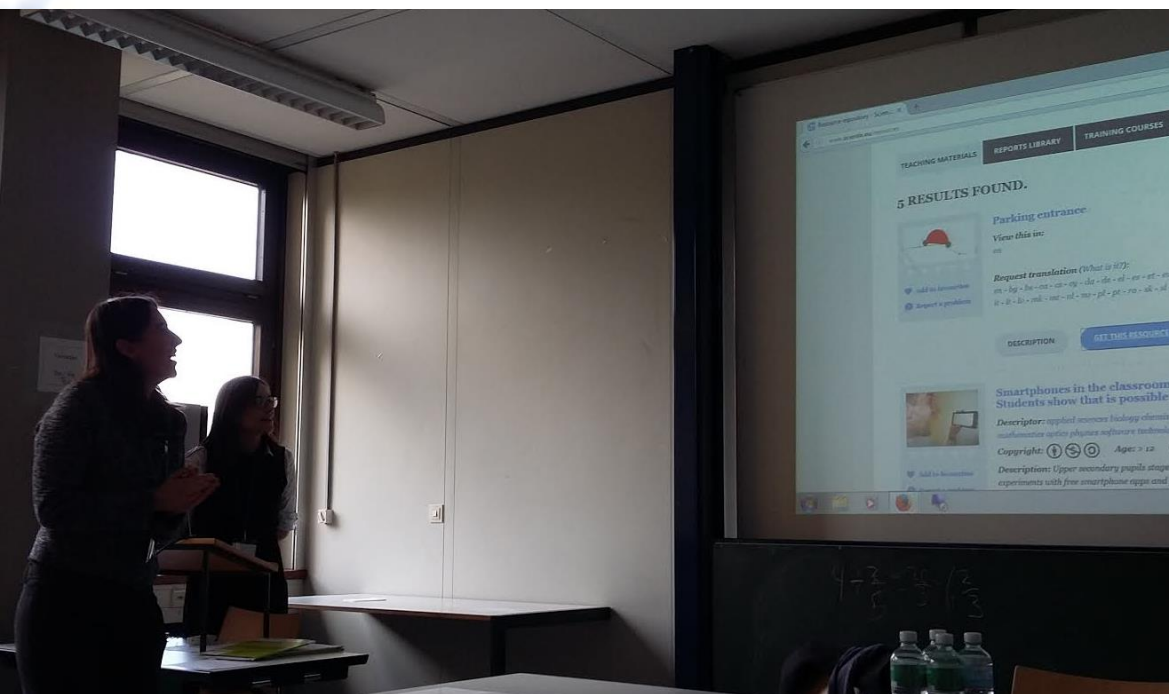


name>>
<<Date>> | <<City>>
<<Name of event>>

Agueda Gras-Velazquez predstava Scientix na EMINENT



Agueda Gras-Velazquez представляя проекта на *Educating Educators*





НАЧАЛО

ПРЕДУЧИЛИЩЕ

ЧИСЛА 1

ФИГУРИ 1

ИЗМЕРВАНЕ

ЧИСЛА 2

ФИГУРИ 2

ТЕЛА

ЧИСЛА 3

ФИГУРИ 3

ФУНКЦИИ

ПРЕОБРАЗУВАНИЯ

СТАТИСТИКА

ПРИЛОЖНИ

ПЪЗЕЛИ

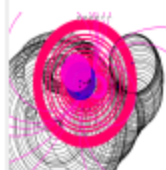
ИГРИ

ИЗКУСТВО

ТЕМИ ВИДЕО СЪСТЕЗАНИЯ ПУБЛИКАЦИИ МЕДИИ ВРЪЗКИ ЗА НАС ОТЗИВИ

1 2 3 4 5 6 7 8 9 10 11 12

Рисувай



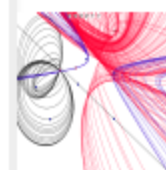
.ggb

Рисувай с конично сечение



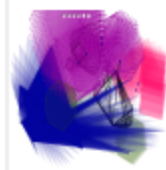
.ggb

Рисувай с конично сечение



.ggb

Рисувай с многоъгълник



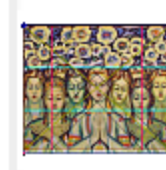
.ggb

Рисувай



.ggb

Рабатмант



.ggb

Спирали изкуство



.ggb

Ротационна симетрия



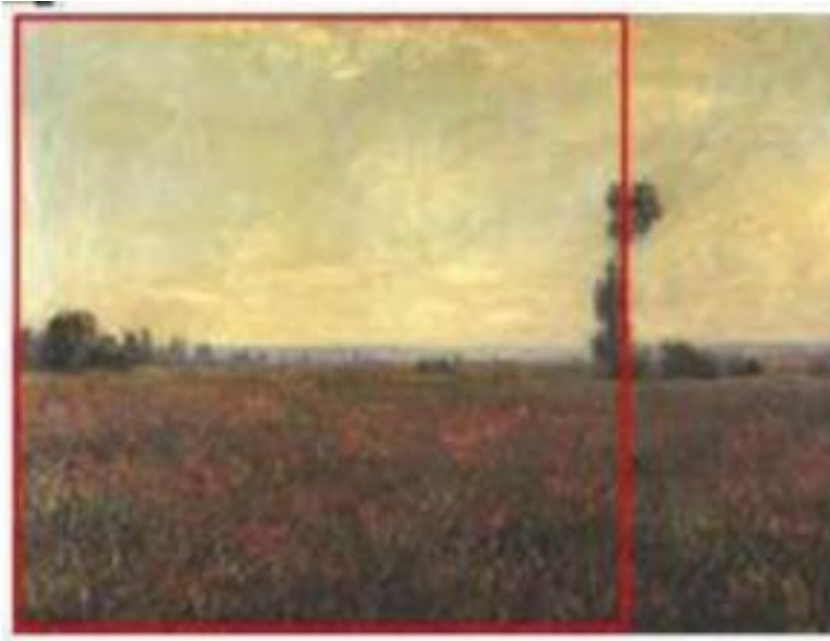
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Влентинка

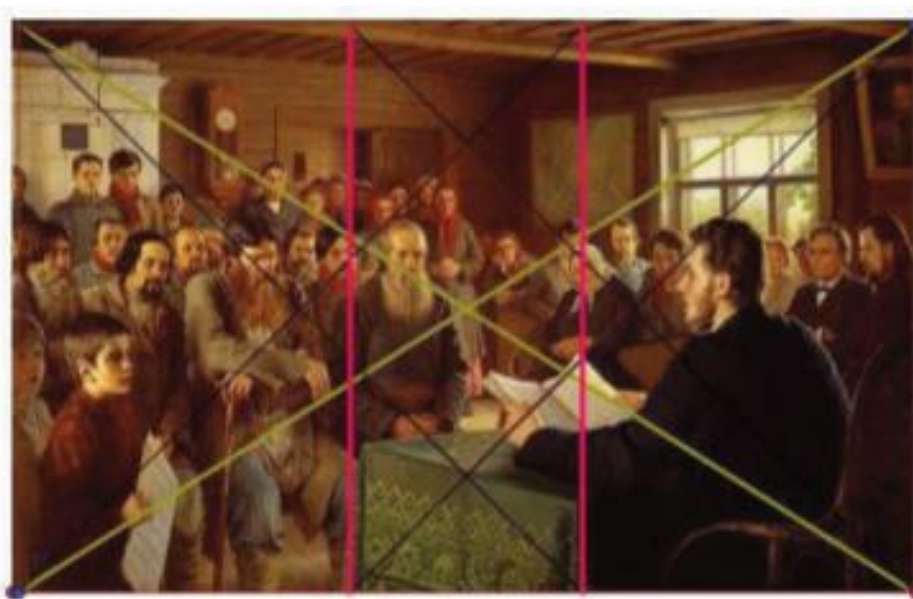
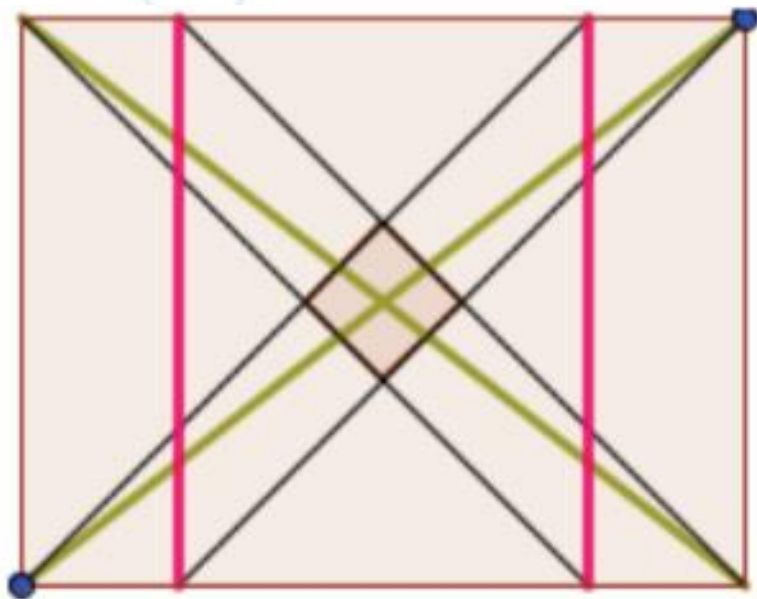


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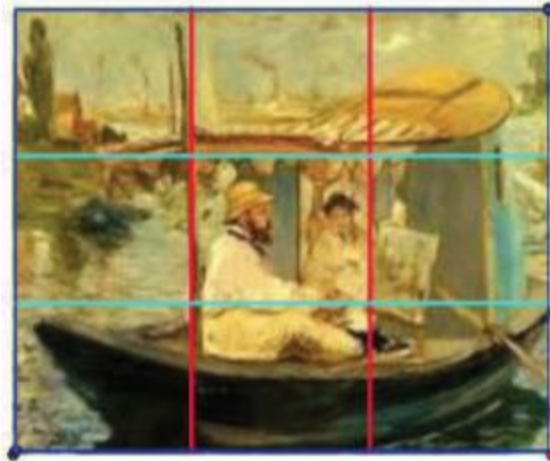
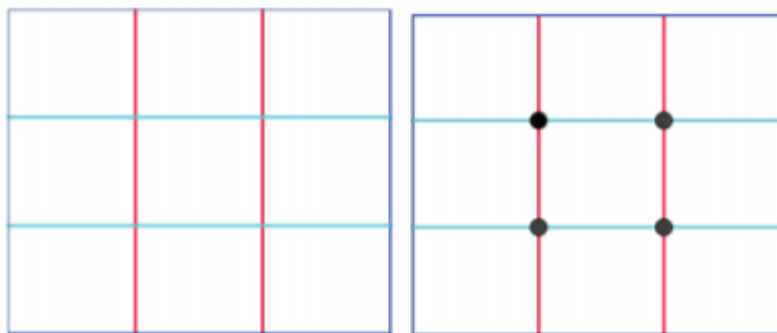
Що е то РАБАТМАНТ?



Рабатмант в действии



Мощните точки



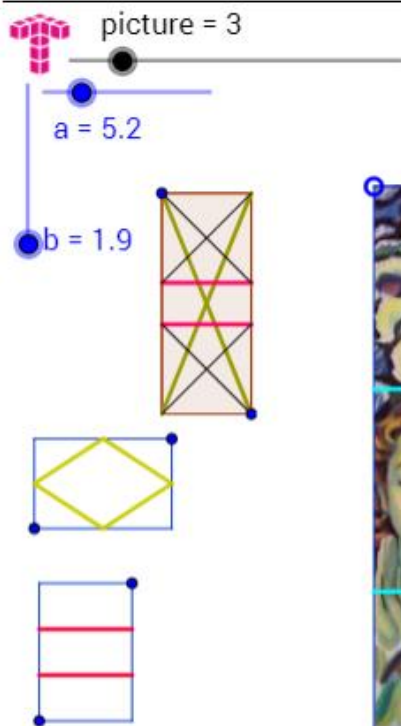
Правилото на третините



Малка загревавка за едно домашно

Рабатмант

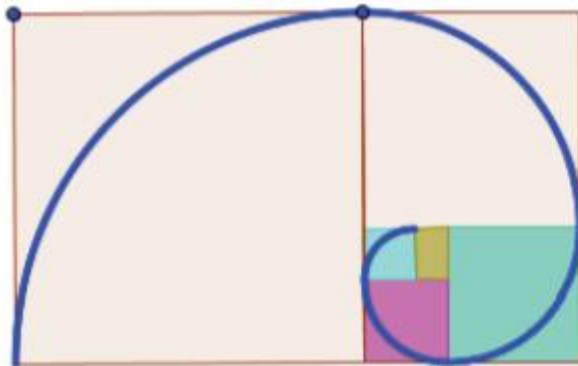
Тони Чехларова d25038, 2013, Създай с [GeoGebra](#)



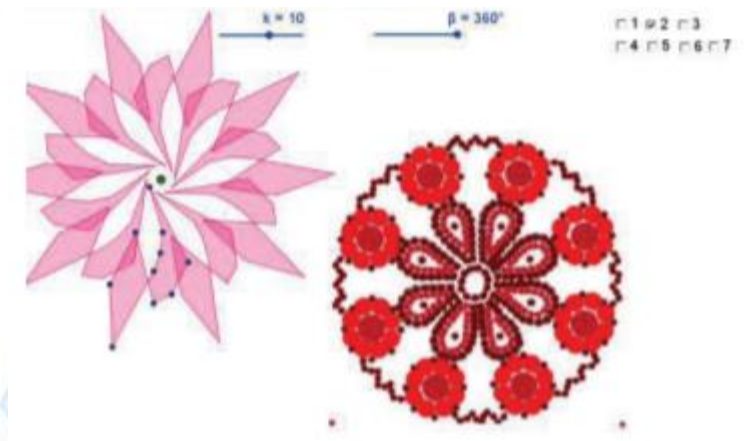
Ромб и златни фигури



Fig. 7. The central rhombus applied to Manet's *The Girl with the Dolphin* and



Ротационната симетрия около нас



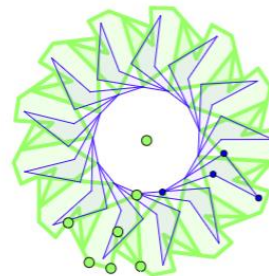
Ротационна симетрия

Toni Chehlarova d25040, 2013, Създай с [GeoGebra](#)



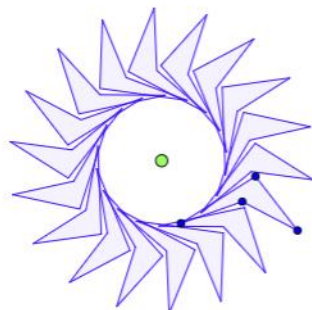
k = 13

c = 4



k = 18

c = 3



<<Presentation title>> | <<Speaker name>>
 <<Date>> | <<City>>
 <<Name of event>>

Вие сте на ход!

