

ERASMUS + KA121 School Education
LEARNING MOBILITY
ATENA, GRECIA
10 -14.07.2023

Curs de formare: **Web 2.0 in Mathematics Classroom** (25 ore)

Oferit de: Information Tehnology, Training & Consulting Services Ltd,
Ilion Attiki, Greece (ITCScom Ltd)

Formator: SPYRIDON DIMOU

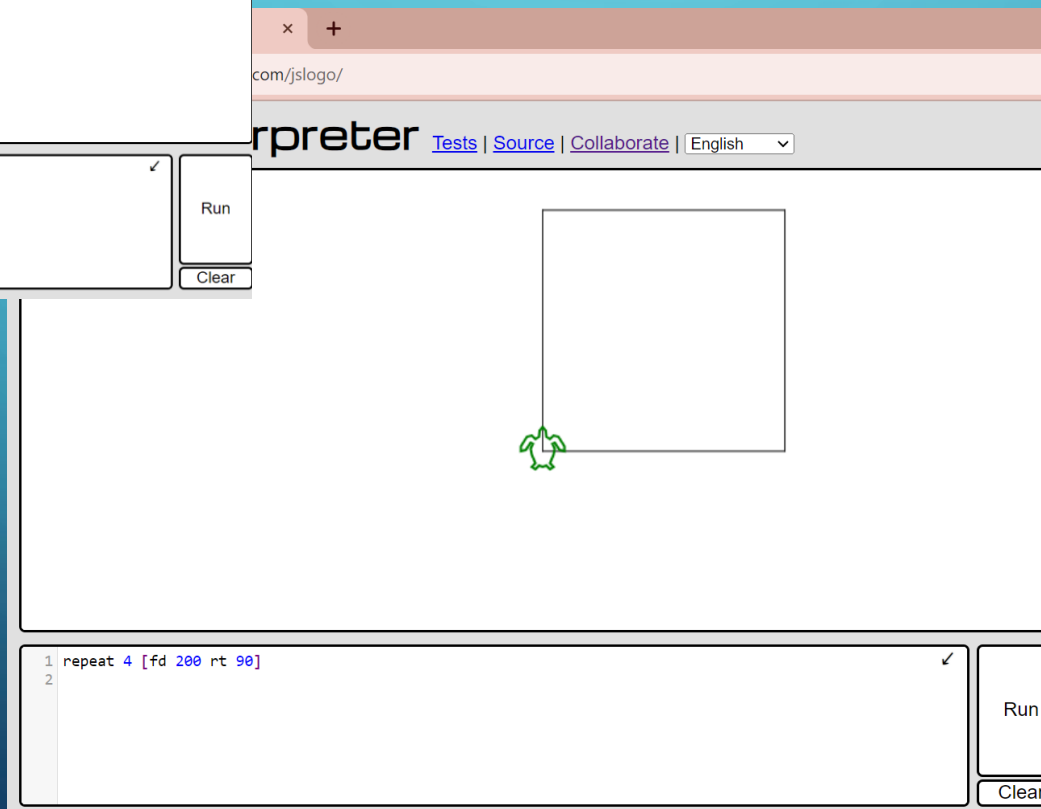
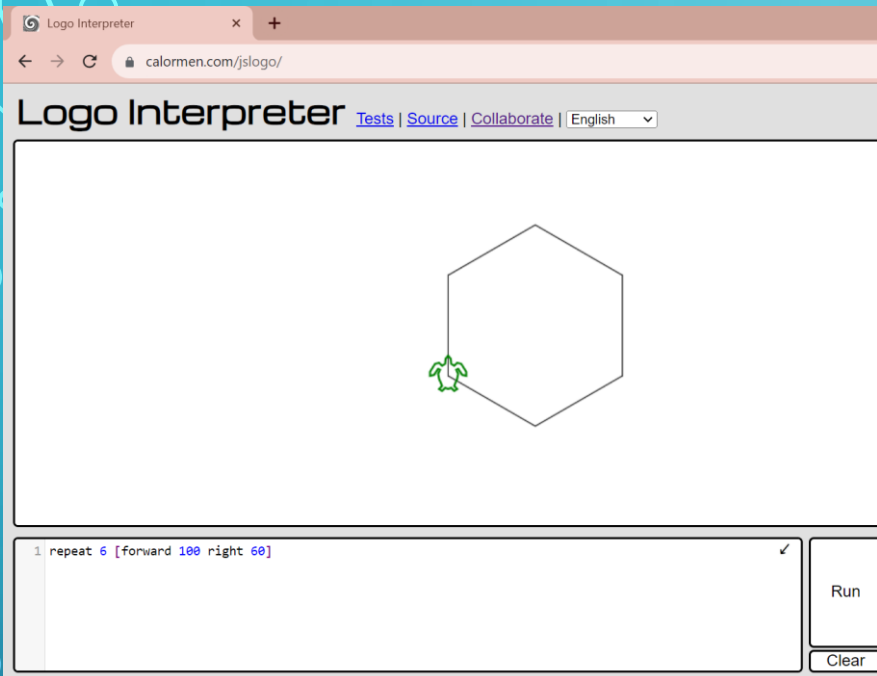
Cursanți: MIHAELA IONESCU și ALINA OLOERIU

Cursul **Web 2.0 in Mathematics Classroom** a avut ca scop:

- Dezvoltarea abilităților digitale pentru predarea matematicii
- Însușirea unor stiluri variate de învățare
- Dezvoltarea interesului pentru matematică prin folosirea metodelor digitale de predare
- Încurajarea profesorilor și elevilor de a publica pe Internet materiale create de ei
- Înțelegerea modului în care instrumentele Web 2.0 pot fi create și folosite

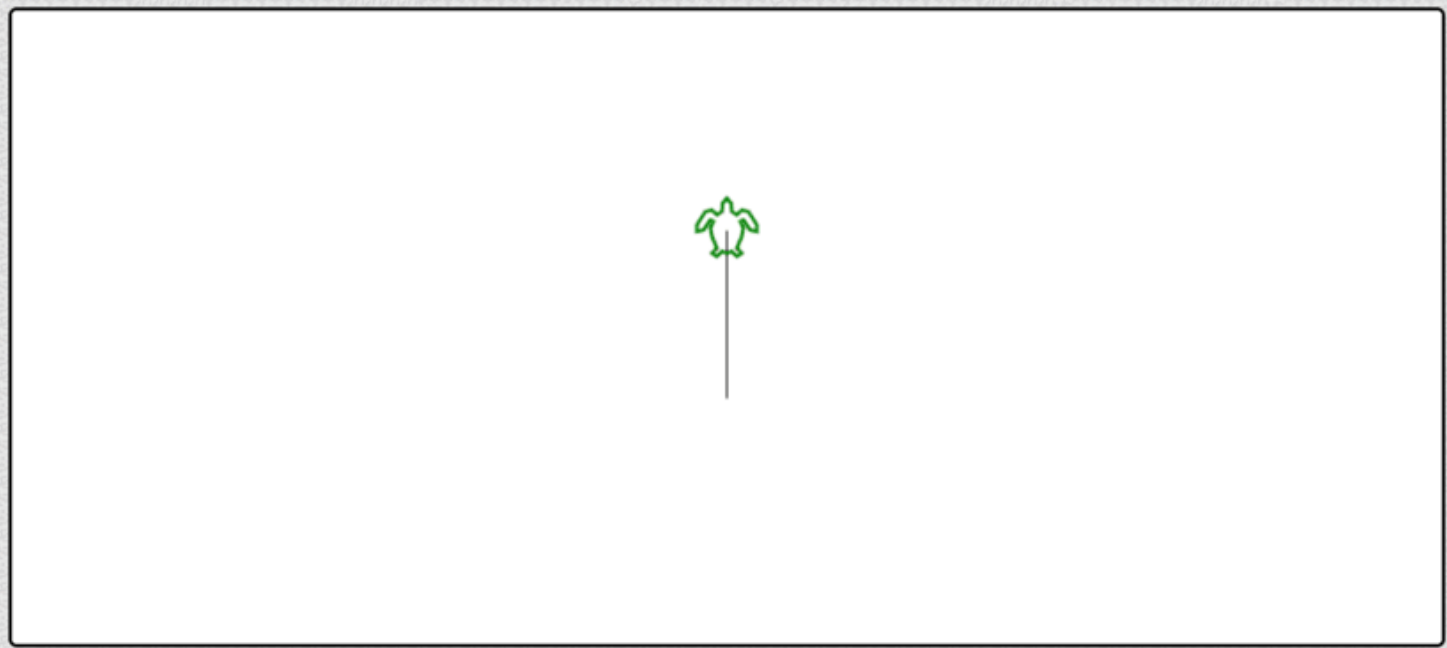
În continuare, câteva site-uri și aplicații utile:

HTTPS://WWW.CALORMEN.COM/JSLOGO/



- Broscuța care desenează un traseu
- Datele de intrare sunt: lungimea traseului și unghiul față de direcția anterioară
- Util în lecțiile în care apar poligoane

Logo Interpreter



```
1 clearscreen
2 forward 100
```

Run
Clear

- [Reference](#) – the Logo language
- [Library](#) – your procedures
- [History](#) – everything you've done here
- [Examples](#) – fun things to try out
- [Extras](#) – helpful utilities
- [Links](#) – other Logo resources

```

TO star
  repeat 5 [ fd 100 rt 144 ]
END
clearscreen
star

TO square :Length
  repeat 4 [ fd :Length rt 90 ]
END

TO randomcolor
  setcolor pick [ red orange yellow green blue violet ]
END
clearscreen
repeat 36 [ randomcolor square random 200 rt 10 ]

clearscreen window hideturtle
repeat 144 [
  setlabelheight recount
  penup
  fd recount * recount / 30
  label "Logo
  bk recount * recount / 30
  pendown
  rt 10
  wait 5
]
showturtle

TO tree :size

```

Aplicație
interactivă în
geometrie,
algebră, analiză
matematică și
statistică.

The screenshot shows the 'download' page on the Geogebra website. The browser's address bar displays 'geogebra.org/download'. The page features a navigation menu on the left with links for Home, News Feed, Resources, Profile, People, and Classroom. Below this menu is a section for 'App Downloads' and footer information including contact details and social media icons. The main content area is a grid of six application cards, each with an icon, a title, a brief description, and two buttons: 'DOWNLOAD' and 'START'. The cards are: Calculator Suite, Graphing Calculator, 3D Calculator, Geometry, GeoGebra Classic 6, and CAS Calculator.

Application	Description	Download Button	Start Button
Calculator Suite	Explore functions, solve equations, construct geometric shapes and 3D objects.	DOWNLOAD	START
Graphing Calculator	Graph functions, investigate equations, and plot data with our free graphing app	DOWNLOAD	START
3D Calculator	Graph 3D functions, plot surfaces and do 3D geometry with our free 3D Grapher	DOWNLOAD	START
Geometry	Construct circles, angles, transformations and more with our free geometry tool	DOWNLOAD	START
GeoGebra Classic 6	Apps bundle including free tools for geometry, spreadsheet, probability, and CAS	DOWNLOAD	START
CAS Calculator	Solve equations, expand and factor expressions, find derivatives and integrals	DOWNLOAD	START

APLICAȚIE : SUMA MĂSURILOR UNGHIURILOR ÎN TRIUNGHI

The screenshot displays the GeoGebra Geometry interface. On the left, the algebra view shows the following data:

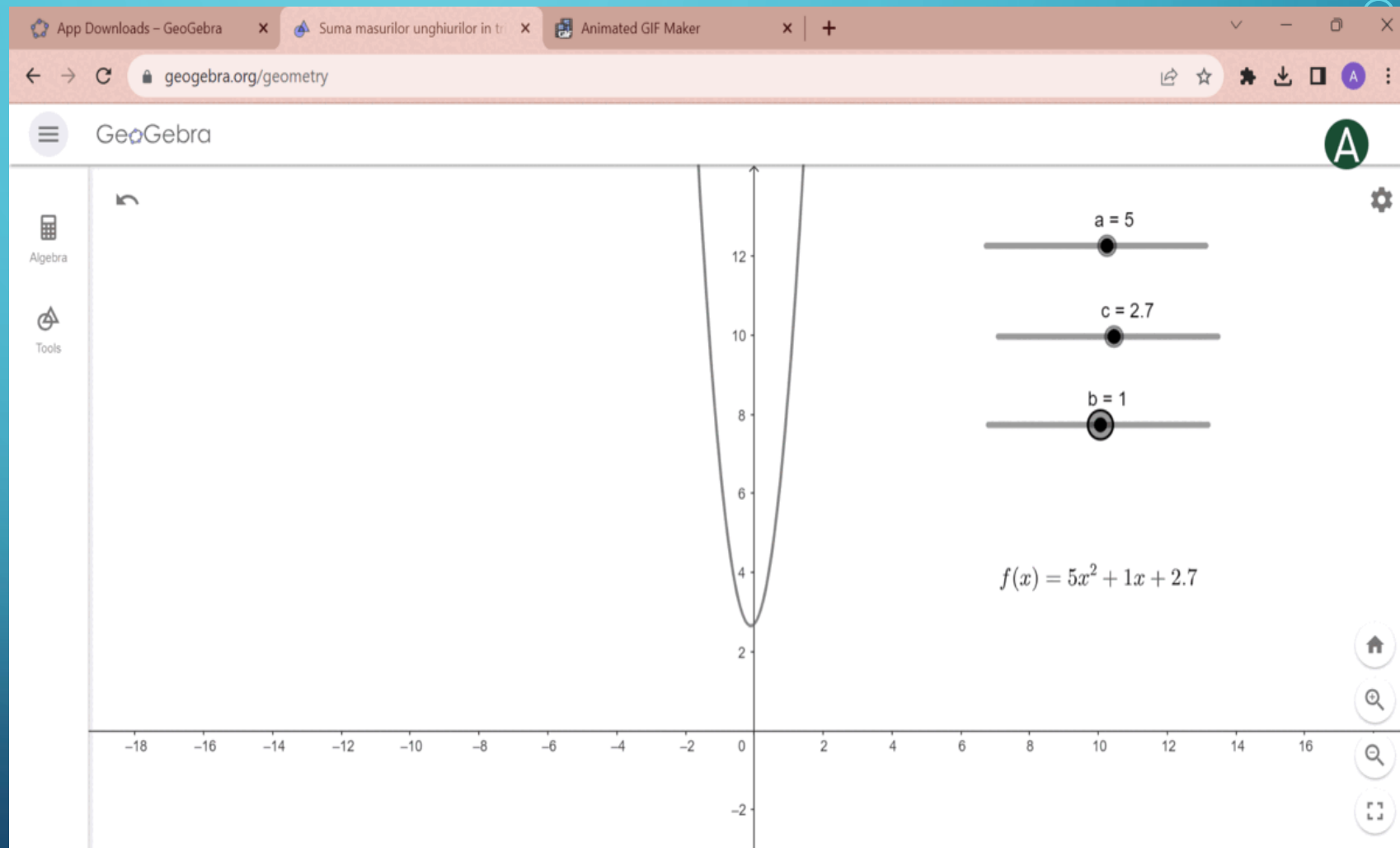
- $\alpha = \text{Angle between B, A, C} = 56.2^\circ$
- $\beta = \text{Angle between A, B, C} = 77.5^\circ$
- $\gamma = \text{Angle between A, C, B} = 46.3^\circ$
- $s = \alpha + \beta + \gamma = 180^\circ$
- text1 = "Suma masurilor unghiurilor = " α "+" β "+" γ " = "+

The main workspace shows a triangle with vertices A, B, and C. The interior angles are labeled as 56.2° at vertex A, 77.5° at vertex B, and 46.3° at vertex C. A text box above the triangle contains the equation: $\text{Suma masurilor unghiurilor} = 56.2^\circ + 77.5^\circ + 46.3^\circ = 180^\circ$.

Se pot mișca laturile triunghiului, astfel încât unghiurile să varieze.

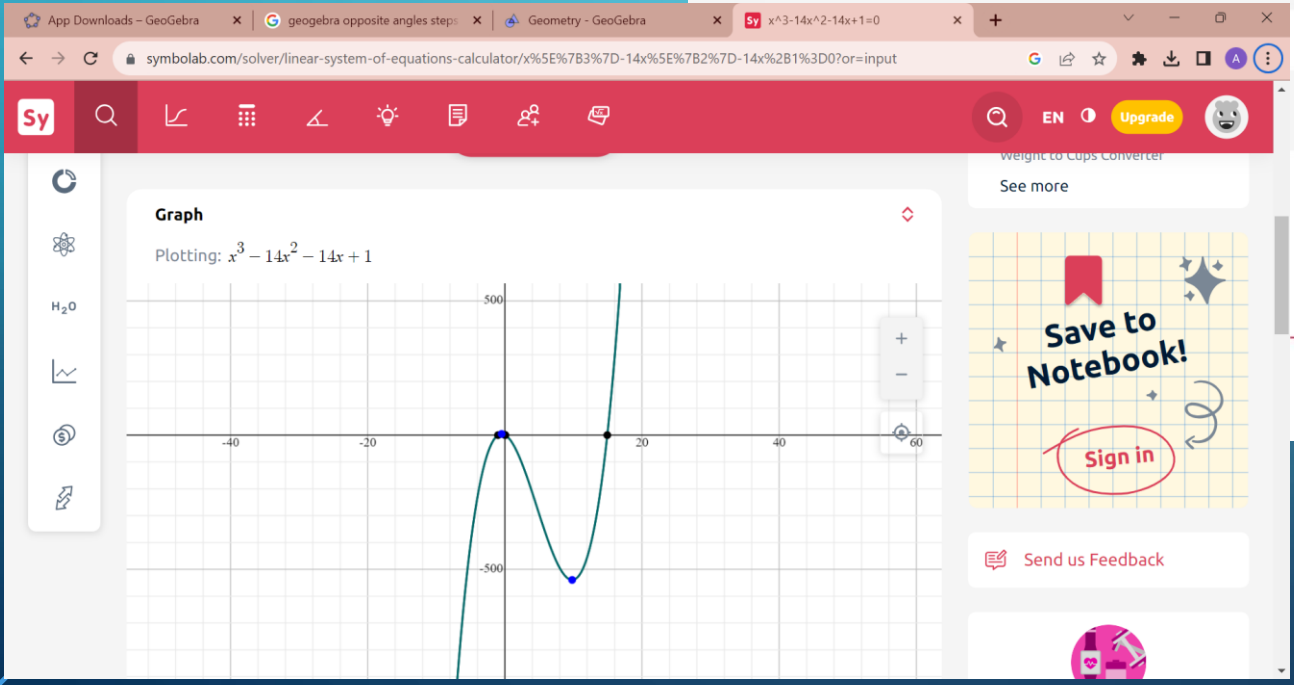
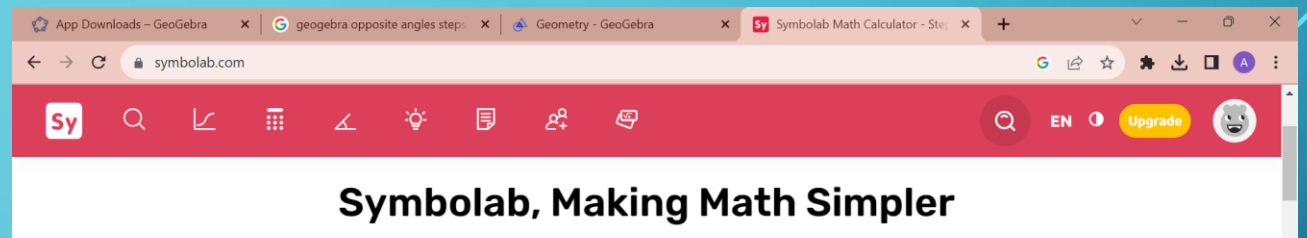
APLICAȚIE : GRAFICUL FUNCȚIEI DE GRADUL AL II-LEA ȘI ARIA SUBGRAFICULUI

Folosirea sliderelor permite schimbarea valorilor unor parametri.



WWW.SYMBOLAB.COM

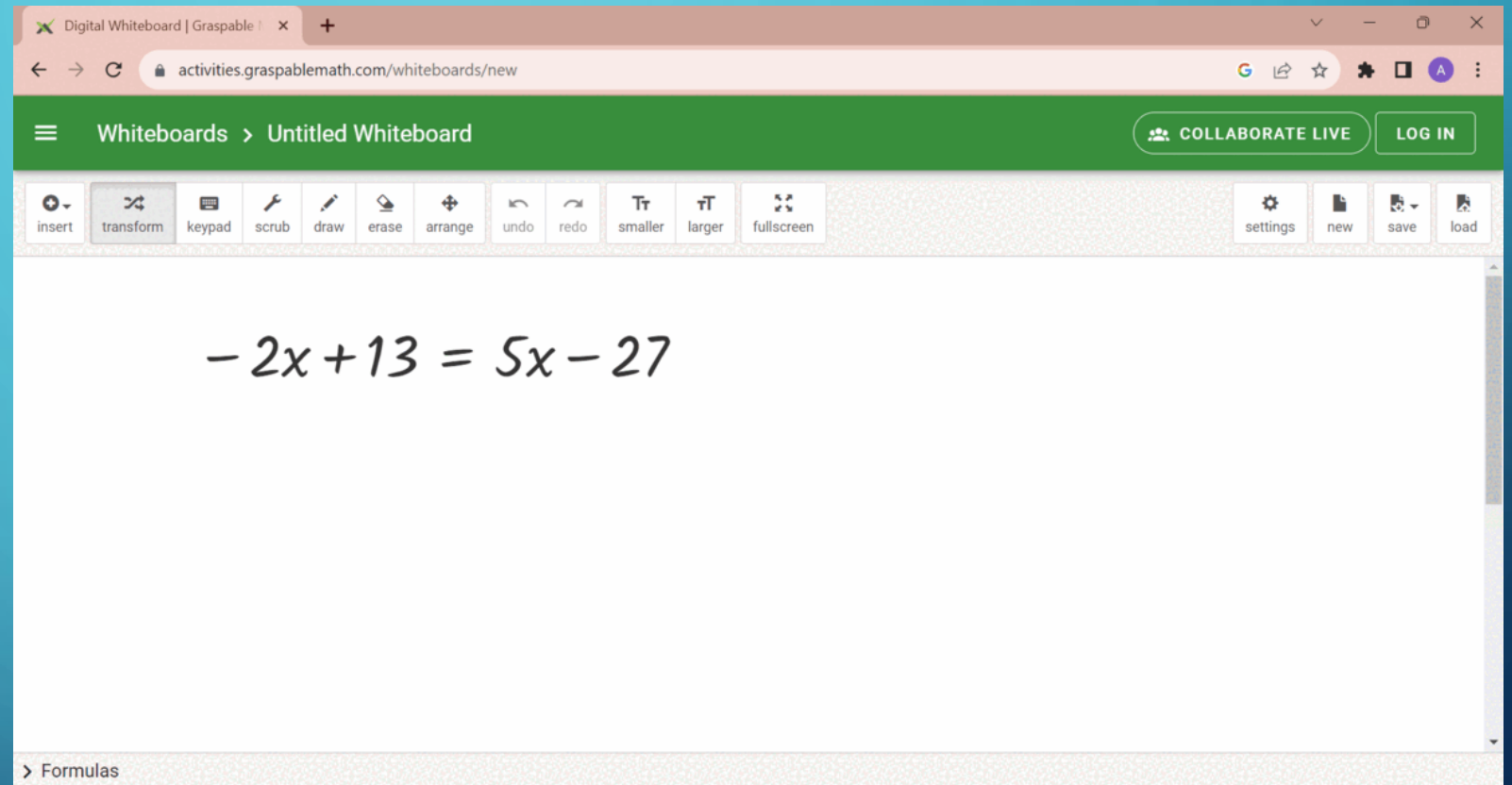
Este util în rezolvarea unei game largi de probleme de matematică: de la cele de aritmetică până la cele de analiză matematică și algebră liniară.

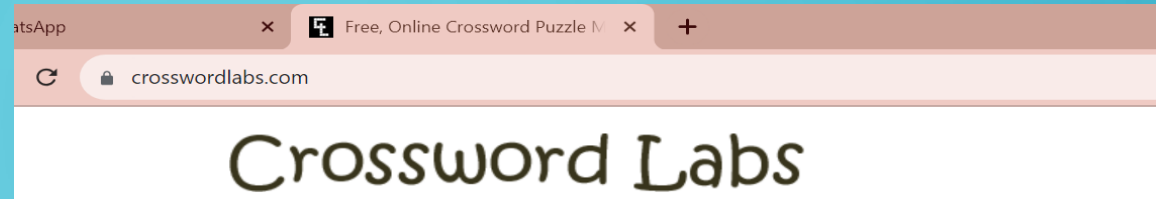


A collection of promotional banners and buttons from the Symbolab website. At the top right is a 'Go' button. Below it is a 'BACK TO SCHOOL' banner featuring two cartoon pencil characters and a '30% Discount' tag, with a 'Join now' button. Below that is a 'Cooking Calculators' banner with a circular icon. In the center, there is a 'Save to Notebook!' banner with a 'Sign in' button circled in red. At the bottom, there is a 'Send us Feedback' button and a 'One step at a time' toggle switch.

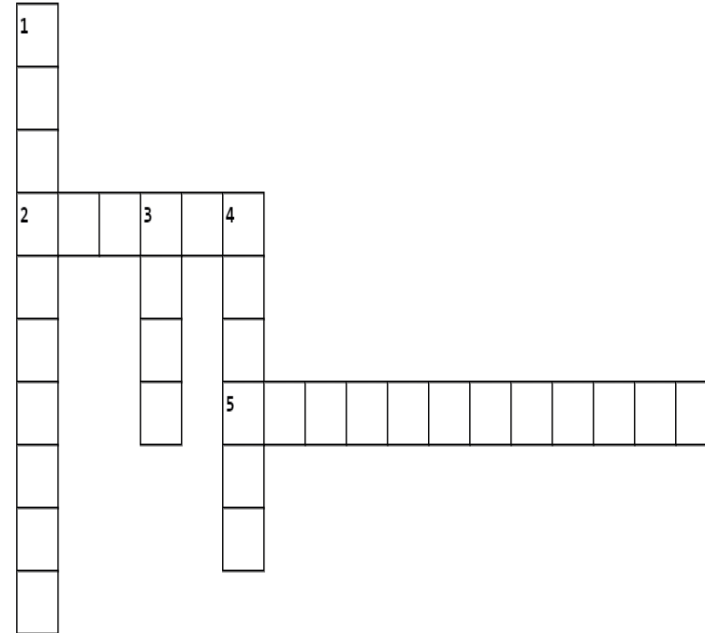
ACTIVITIES.GRASPABLEMATH.COM

- Opțiunea **WHITEBOARDS** permite elevului să rezolve ecuații, pas cu pas, prin mutarea numerelor sau a necunoscutelor, astfel încât să se ajungă la soluția corectă.
- Opțiunea **ACTIVITY BANK** permite crearea și trimiterea temelor elevilor.





- Site care permite crearea de rebusuri
- Se introduc doar cuvintele și definițiile
- Realizează rebusul fără ajutor



Across

2. Romb cu un unghi drept.
5. Patrulater cu doua laturi paralele si congruente.

Down

1. Paralelogram cu diagonale egale.
3. Paralelogram cu diagonale perpendiculare.
4. Patrulater cu doua laturi paralele si celelalte doua neperalele.

WORDWALL.NET

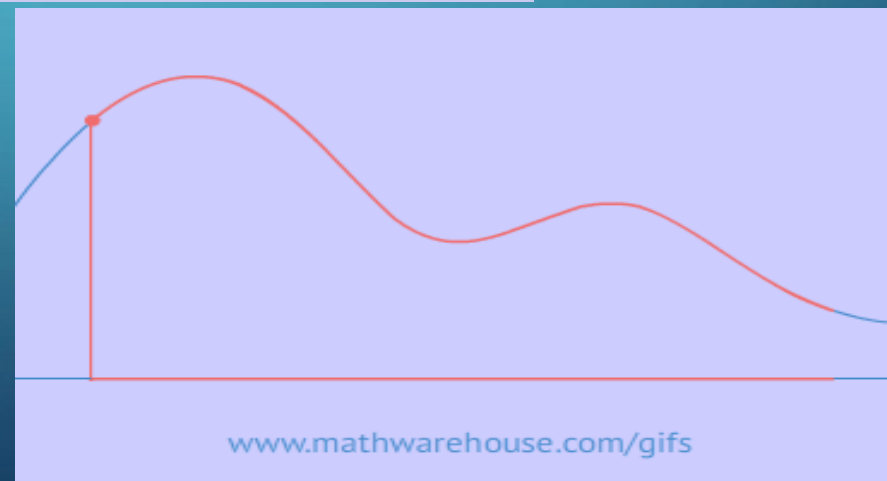
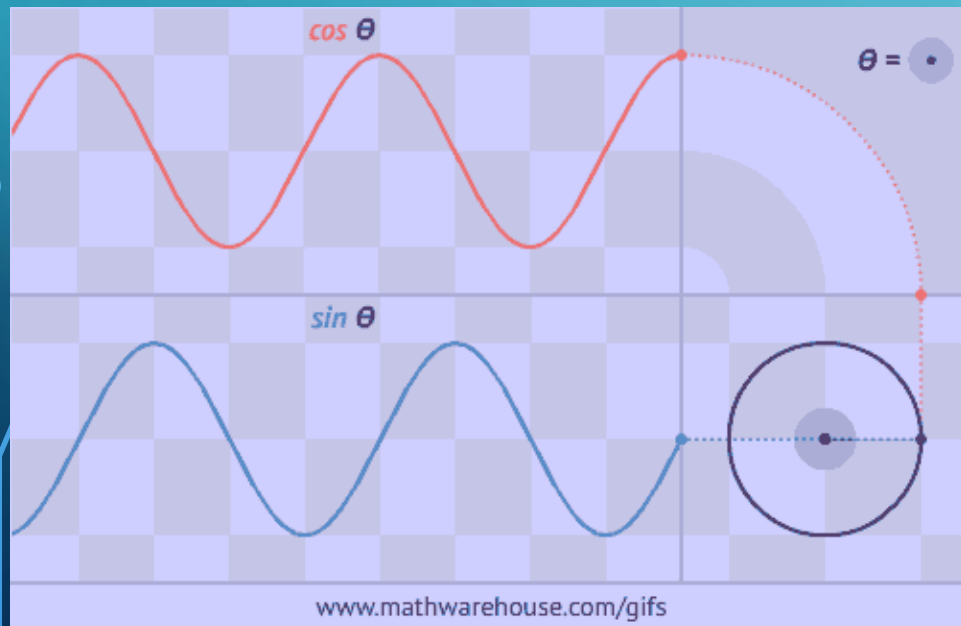
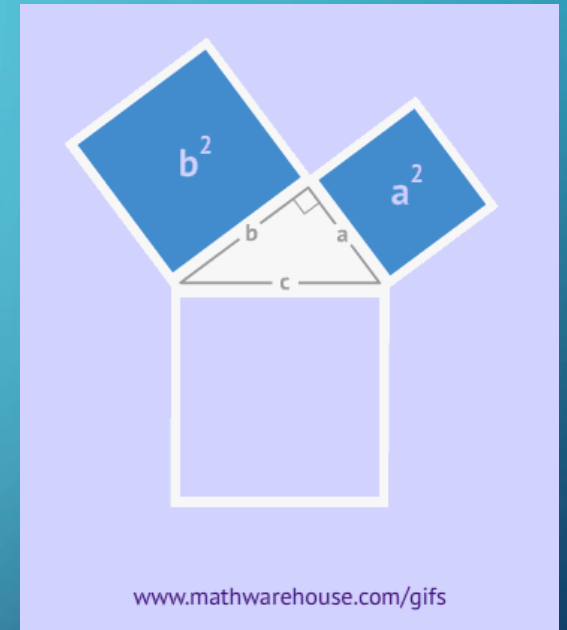
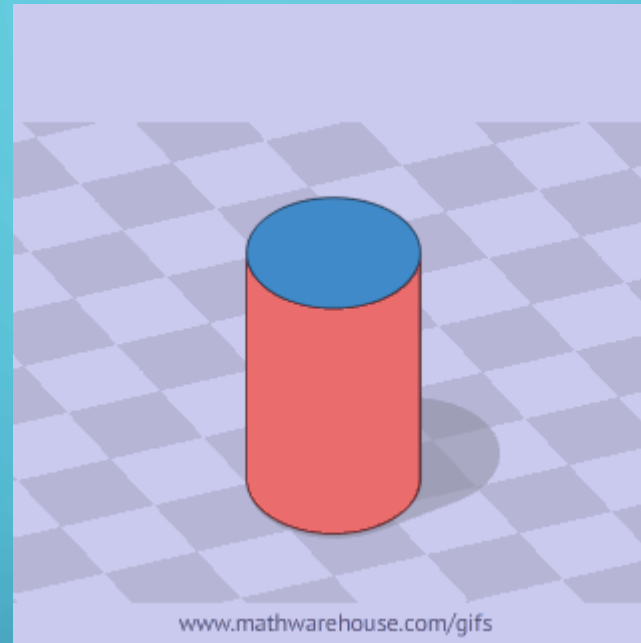
Site care vine în ajutorul profesorului pentru a crea teste, împerecheri și jocuri variate.

The screenshot shows the Wordwall.net website interface. At the top, there are several browser tabs: "App Downloads - GeoGebra", "geogebra opposite angles steps", "Geometry - GeoGebra", and "Wordwall | Create better lessons". The address bar shows "wordwall.net". Below the browser interface, the main content area is titled "Select a template to learn more" and displays a grid of 20 activity templates, each with an icon and a brief description:

- Match up**: Drag and drop each keyword next to its definition.
- Quiz**: A series of multiple choice questions. Tap the correct answer to proceed.
- Random wheel**: Spin the wheel to see which item comes up next.
- Random cards**: Deal out cards at random from a shuffled deck.
- Group sort**: Drag and drop each item into its correct group.
- Missing word**: A cloze activity where you drag and drop words into blank spaces within a text.
- Matching pairs**: Tap a pair of tiles at a time to reveal if they are a match.
- Find the match**: Tap the matching answer to eliminate it. Repeat until all answers are gone.
- Unjumble**: Drag and drop words to rearrange each sentence into its correct order.
- Anagram**: Drag the letters into their correct positions to unscramble the word or phrase.
- Open the box**: Tap each box in turn to open them up and reveal the item inside.
- Labelled diagram**: Drag and drop the pins to their correct place on the image.
- Flash cards**: Test yourself using cards with prompts on the front and
- Wordsearch**: Words are hidden in a letter grid. Find them as fast as you
- Hangman**: Try to complete the word by picking the correct letters.

WWW.MATHWAREHOUSE.COM/ANIMATED-GIFS/INDEX.PHP

Site cu o variată
colecție de gif-uri
matematice.



EZGIF.COM

Crează gif-uri



I

