
Virtuelna tabla

Nada Sokolović,
eTwinning ambasadorica





eTwinning

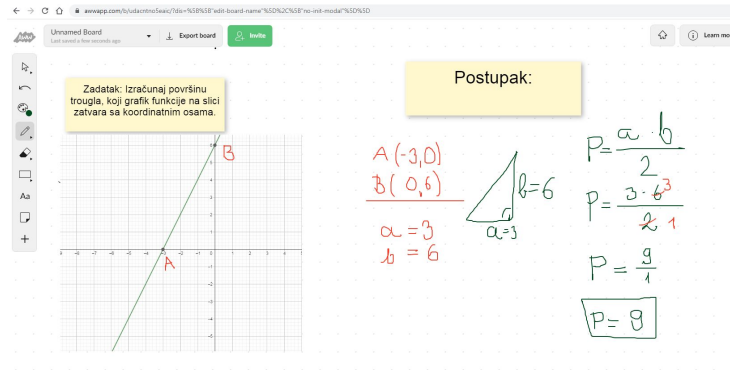
Virtuelna tabla

webinar

Sadržaj webinarara:

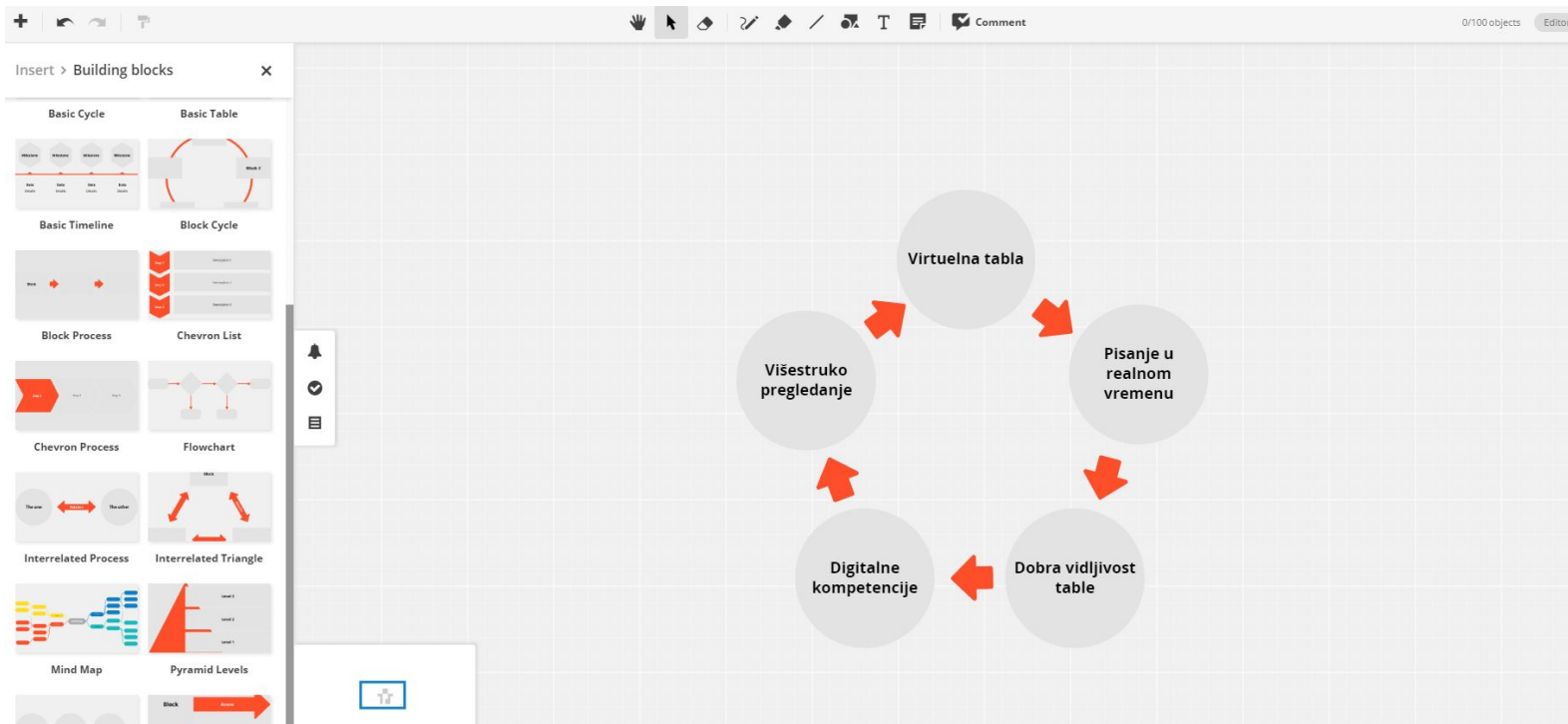
Važnost table u online nastavi
 Microsoft Teams
 Zoom
 Linoit

Padlet
 AWW APP
 Whiteboard.fi
 Conceptboard



The screenshot shows a whiteboard interface with a math problem and its solution. The problem is: "Zadatak: Izračunaj površinu trougla, koji grafik funkcije na slici zatvara sa koordinatnim osama." (Task: Calculate the area of the triangle formed by the graph of the function on the picture and the coordinate axes). The graph shows a line passing through points A(-3,0) and B(0,6). The solution steps are: "Postupak:" (Procedure:), "A(-3,0)", "B(0,6)", "a=3", "b=6", a diagram of a right-angled triangle with legs of length 3 and 6, and "P = \frac{a \cdot b}{2} = \frac{3 \cdot 6}{2} = \frac{9}{1} = 9".

Važnost table u online nastavi



The screenshot shows an online editor interface with a grid background. On the left, there is a sidebar titled "Insert > Building blocks" with various icons for different diagram types. The main workspace contains a circular flow diagram with five grey circular nodes connected by red arrows in a clockwise direction. The nodes contain the following text:

- Višestruko pregledanje
- Virtuelna tabla
- Pisanje u realnom vremenu
- Dobra vidljivost table
- Digitalne kompetencije

The diagram illustrates a cycle of factors that contribute to the importance of tables in online teaching. The nodes are arranged in a circle, with red arrows indicating a clockwise flow from one node to the next.

Dobra vidljivost

Virtuelnu tablu dobro vidimo, za razliku od table, koju koristimo u školskoj učionici.

Često smo svjedoci da učenik/ica iz zadnje klupe ne vidi šta piše na tabli i mora ustajati.

Kreativnost

Upotrebom virtuelne table i učenici i nastavnici
imaju više mogućnosti da budu kreativni.

Mogućnost višestrukog pregledanja

Za razliku od školske table, koju kada obrišemo, izgubimo sadržaj, koji je bio prikazan, kod virtuelne table postoji mogućnost da naši učenici pregledaju sadržaj više puta, ukoliko je to potrebno.

Mogućnost pisanja u realnom vremenu

Na jednoj virtuelnoj tabli, može u isto vrijeme pisati više saradnika, što je pogodno za rad na časovima i u projektima.

U virtuelnu tablu možemo, pored teksta i crteža, dodati:

- fotografije,

-link za video,

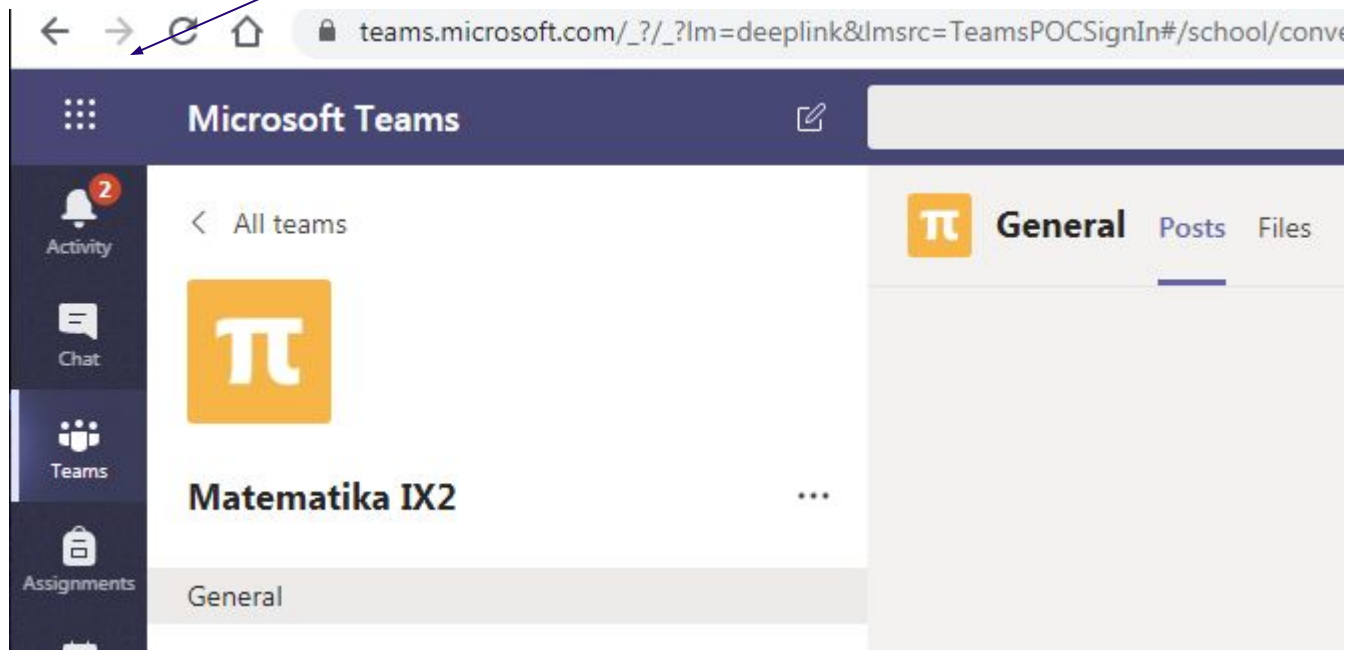
-grafikone...

Upotreba virtuelne table omogućava razvoj digitalnih kompetencija kod učenika i nastavnika.

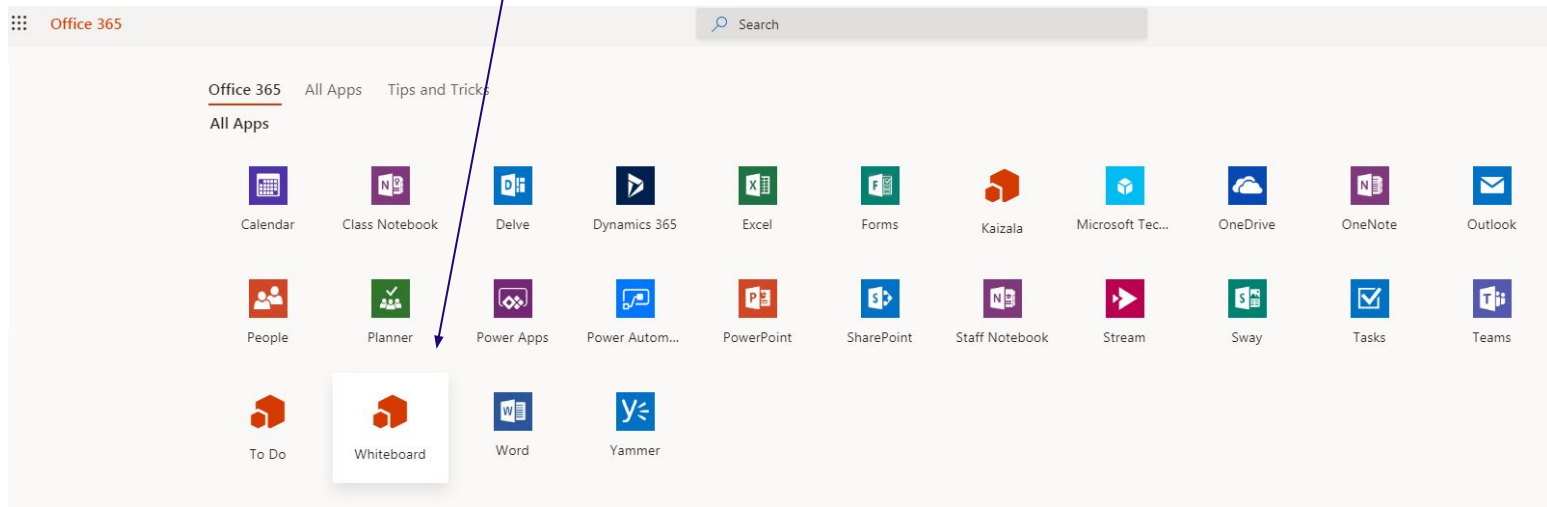
Poželjne karakteristike Virtuelne table:

- Neograničeno platno,
- Omogućava jednostavnu saradnju nastavnika i učenika u realnom vremenu,
- Mogućnost dodavanja datoteka (fotografija, prezentacija, linkova,...)
- Ima mogućnost da je možemo podijeliti sa učenicima ili saradnicima u projektu.

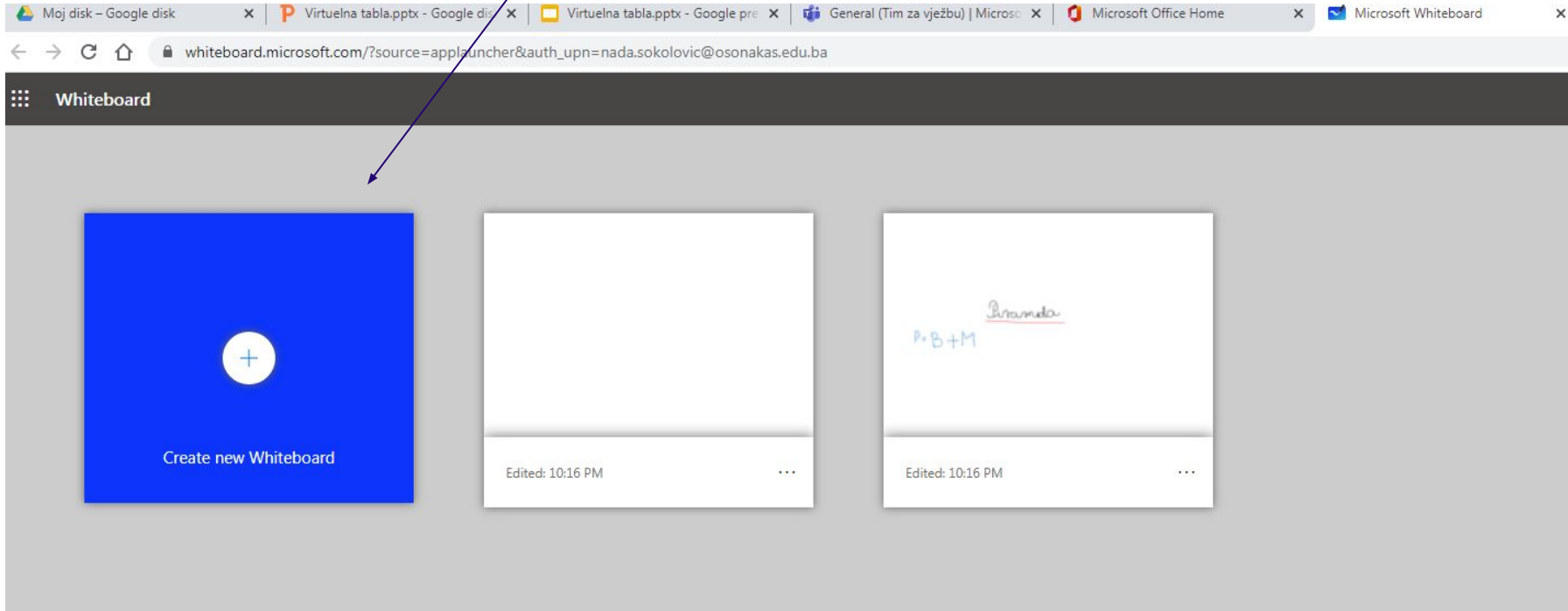
Microsoft Teams



Whiteboard

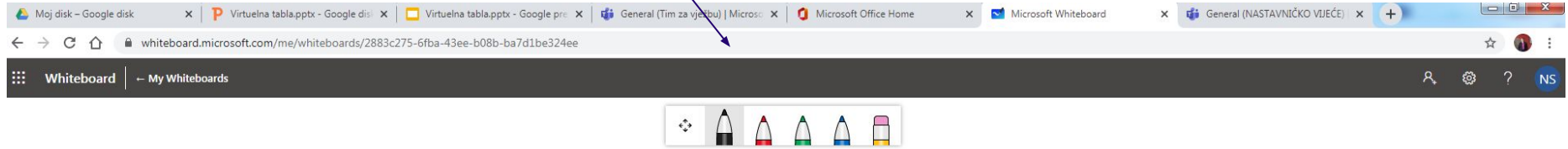


Kreiramo novu tablu:



The screenshot shows a web browser window with the URL `whiteboard.microsoft.com/?source=applauncher&auth_upn=nada.sokolovic@osonakas.edu.ba`. The page title is "Whiteboard". On the left, there is a large blue square button with a white plus sign and the text "Create new Whiteboard". To its right are two whiteboard cards. The first card is blank and has "Edited: 10:16 PM" at the bottom. The second card contains the handwritten text "P+B+M" and "Pravna" and also has "Edited: 10:16 PM" at the bottom. A blue arrow points from the top of the page to the "Create new Whiteboard" button.

Možemo odabrati boju olovke i početi pisanje:



To collaborate, select a pen and start drawing



Kopiramo link

A screenshot of a software interface. On the left, there is a drawing toolbar with icons for a selection tool, a black marker, and four colored markers (red, green, blue, yellow). On the right, a "Share" menu is open, showing options for "Invite by email" and "Create sharing link". Below these options, a text box contains the URL "https://wbd.ms/share/v2/aHR0cHM6Ly9". At the bottom of the menu are "Copy" and "Cancel" buttons. A blue arrow points from the text "Kopiramo link" to the "Copy" button in the share menu.

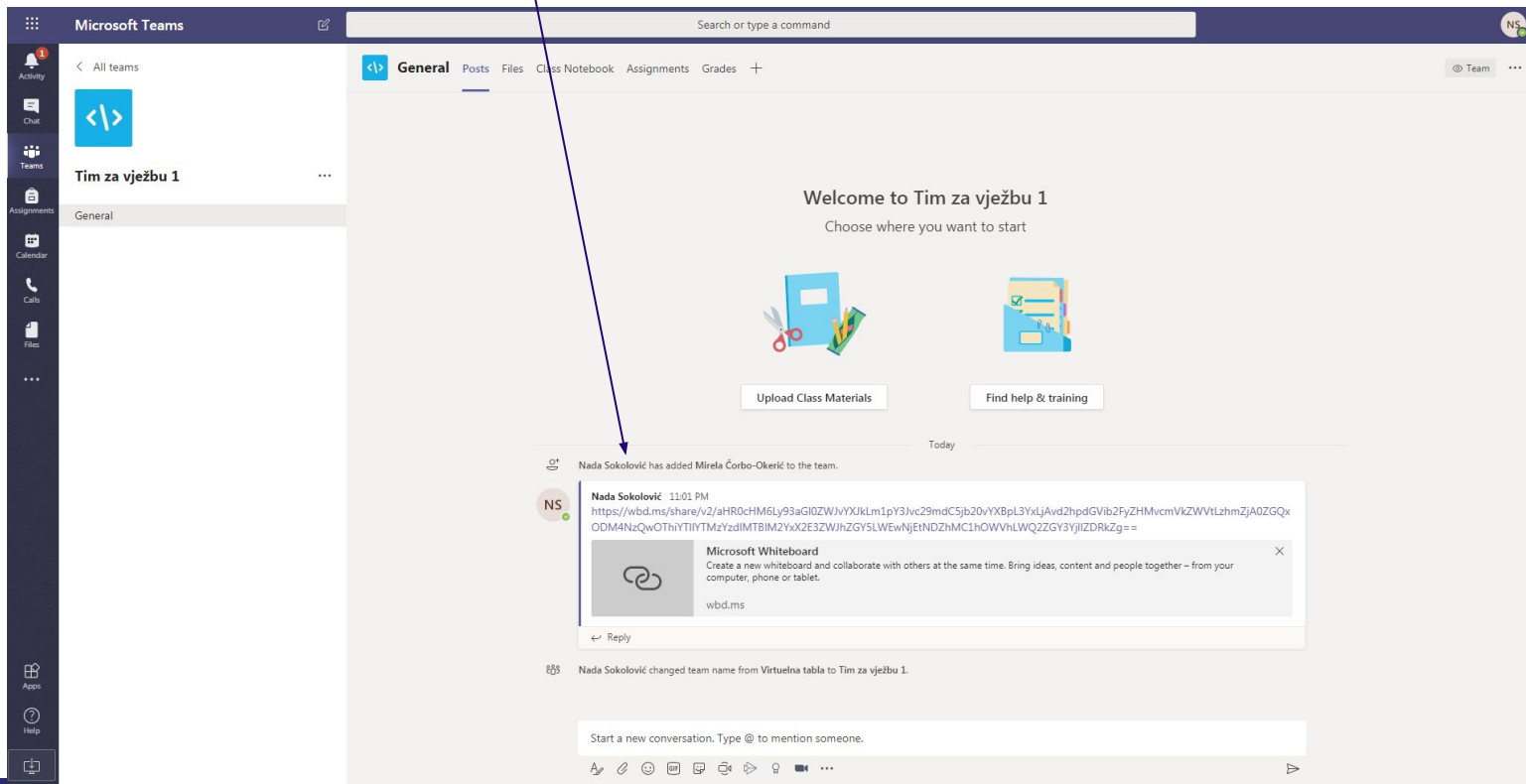
Share

- Invite by email
- Create sharing link

<https://wbd.ms/share/v2/aHR0cHM6Ly9>

Copy Cancel

Link postavimo :



The screenshot shows the Microsoft Teams interface for a team named "Tim za vježbu 1". The main area displays a "Welcome to Tim za vježbu 1" message with options to "Upload Class Materials" and "Find help & training". A message from "Nada Sokolović" at 11:01 PM contains a link to a Microsoft Whiteboard. The link is highlighted with a blue arrow pointing from the text "Link postavimo :". The whiteboard card shows the URL: <https://wbd.ms/share/v2/aHR0cHM6Ly93aGI0ZWJvYXJkLm1pY3Jvc29mdC5jb20vYXBpL3YxLjAwd2hpdGVib2FyZHMvcmVka2VwL2hmZjA0ZGQxODM4NzQwOTYyYTYyZDI0MTBIM2YxX2E3ZWJhZGY5LWVwNjE0NDZhMC1hOWVhLWQzZGY3YjJiZDRkZg==>. Below the link is a card for "Microsoft Whiteboard" with the text: "Create a new whiteboard and collaborate with others at the same time. Bring ideas, content and people together – from your computer, phone or tablet." and the URL "wbd.ms".

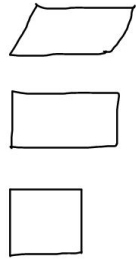
Primjer:

Whiteboard -- My Whiteboards

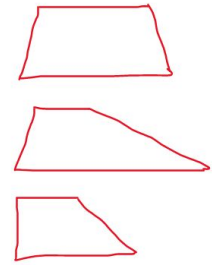


Vrste četverouglova

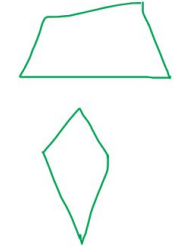
Paralelogrami :



Trapezi:



Trapezoidi:

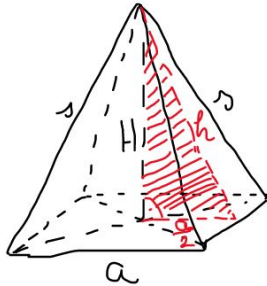


Primjer:



1) $a = 130 \text{ cm}$
 $H = 72 \text{ cm}$

 h, s, P, V



$$h^2 = H^2 + \left(\frac{a}{2}\right)^2$$

$$h^2 = 72^2 + \left(\frac{130}{2}\right)^2$$

$$h^2 = 5184 + 65^2$$

$$h^2 = 5184 + 4225$$

$$h^2 = 9409$$

$$h = \sqrt{9409}$$

$$\underline{h = 97 \text{ cm}}$$

$$P = B + M$$

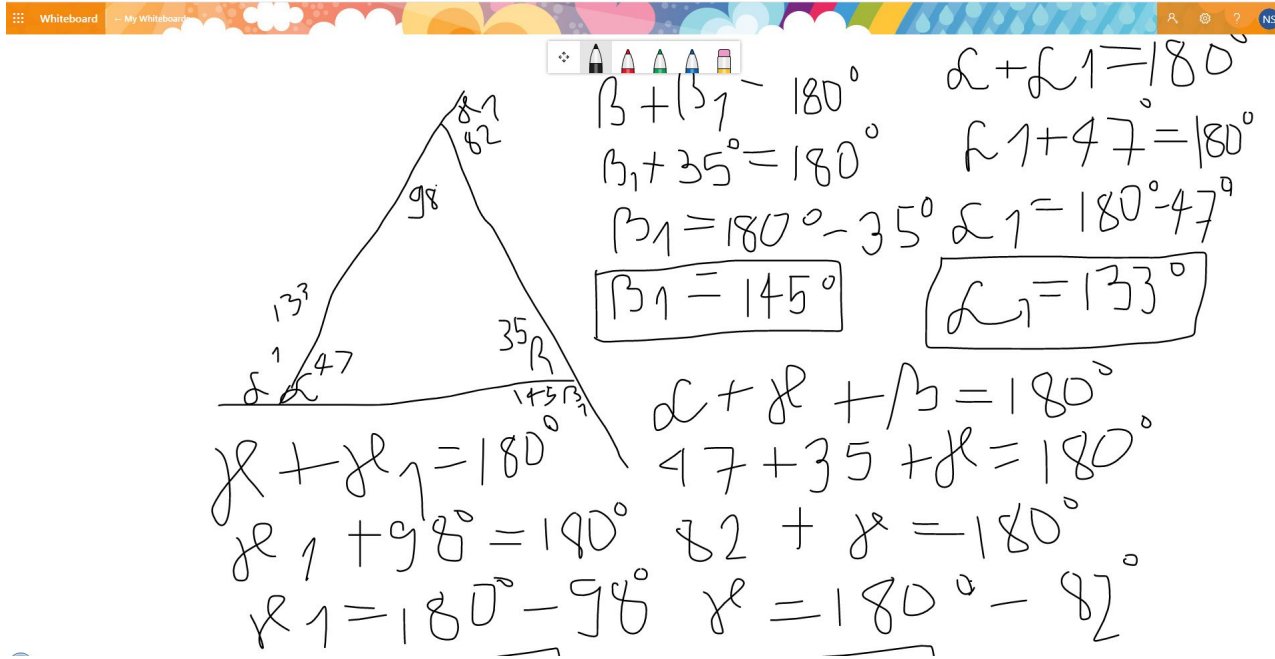
$$P = a^2 + 4 \cdot \frac{a \cdot h}{2}$$

$$P = a^2 + 2ah$$

Primjer provjere znanja učenika:

Zadatak:

Odredi sve nepoznate unutrašnje i spoljašnje uglove trougla.



The diagram shows a triangle with interior angles α , β , and γ . Exterior angles are labeled α_1 , β_1 , and γ_1 . The interior angles are given as $\alpha = 47^\circ$, $\beta = 35^\circ$, and $\gamma = 98^\circ$. The exterior angles are $\alpha_1 = 133^\circ$, $\beta_1 = 82^\circ$, and $\gamma_1 = 82^\circ$. The calculations on the right determine the unknown interior angles β_1 and α_1 .

Handwritten calculations:

$$\beta + \beta_1 = 180^\circ \quad \alpha + \alpha_1 = 180^\circ$$
$$\beta_1 + 35^\circ = 180^\circ \quad \alpha_1 + 47^\circ = 180^\circ$$
$$\beta_1 = 180^\circ - 35^\circ \quad \alpha_1 = 180^\circ - 47^\circ$$
$$\boxed{\beta_1 = 145^\circ} \quad \boxed{\alpha_1 = 133^\circ}$$

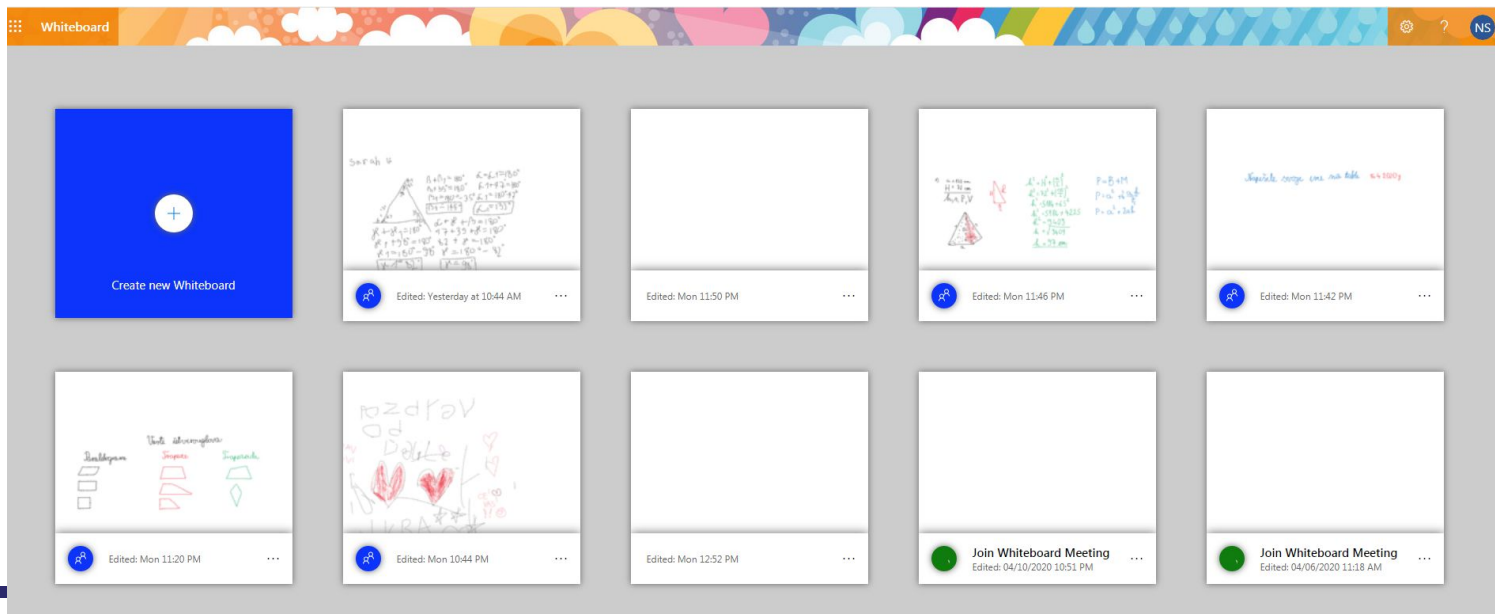
Additional calculations for exterior angles:

$$\alpha + \alpha_1 = 180^\circ \quad \alpha + \beta + \gamma = 180^\circ$$
$$\alpha_1 + 47^\circ = 180^\circ \quad 47^\circ + 35^\circ + \gamma = 180^\circ$$
$$\alpha_1 = 180^\circ - 47^\circ \quad 82^\circ + \gamma = 180^\circ$$
$$\alpha_1 = 133^\circ \quad \gamma = 180^\circ - 82^\circ$$
$$\gamma = 98^\circ$$

Pregled tabli učenika, kako ih vidi nastavnik/ica (ostali učenici ne vide jedni drugima zadatke)

Primjer:

Pripremiti 5 linkova sa različitim zadacima za učenike i na početku časa dati po 1 link sa zadatkom (da riješi na tabli).



The screenshot shows the 'Whiteboard' interface with a grid of 10 whiteboards. The top bar is orange and blue with the text 'Whiteboard' and a user profile icon 'NS'. The grid contains:

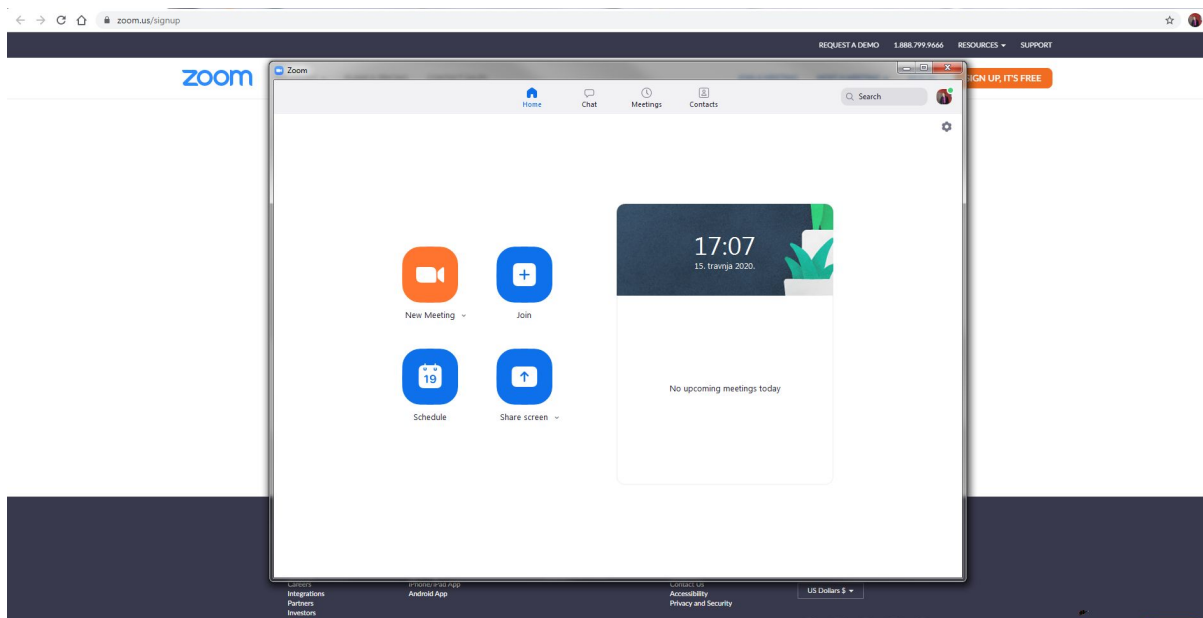
- 1. A blue button with a white plus sign and the text 'Create new Whiteboard'.
- 2. A whiteboard with handwritten mathematical work, including a triangle diagram and equations. Edited: Yesterday at 10:44 AM.
- 3. An empty whiteboard. Edited: Mon 11:50 PM.
- 4. A whiteboard with handwritten mathematical work, including a triangle diagram and equations. Edited: Mon 11:46 PM.
- 5. A whiteboard with a URL: <https://www.erasmus.eu>. Edited: Mon 11:42 PM.
- 6. A whiteboard with handwritten text and diagrams. Edited: Mon 11:20 PM.
- 7. A whiteboard with handwritten text and drawings of hearts. Edited: Mon 10:44 PM.
- 8. An empty whiteboard. Edited: Mon 12:52 PM.
- 9. A whiteboard with a green circle icon and the text 'Join Whiteboard Meeting'. Edited: 04/10/2020 10:51 PM.
- 10. A whiteboard with a green circle icon and the text 'Join Whiteboard Meeting'. Edited: 04/06/2020 11:18 AM.

Zoom

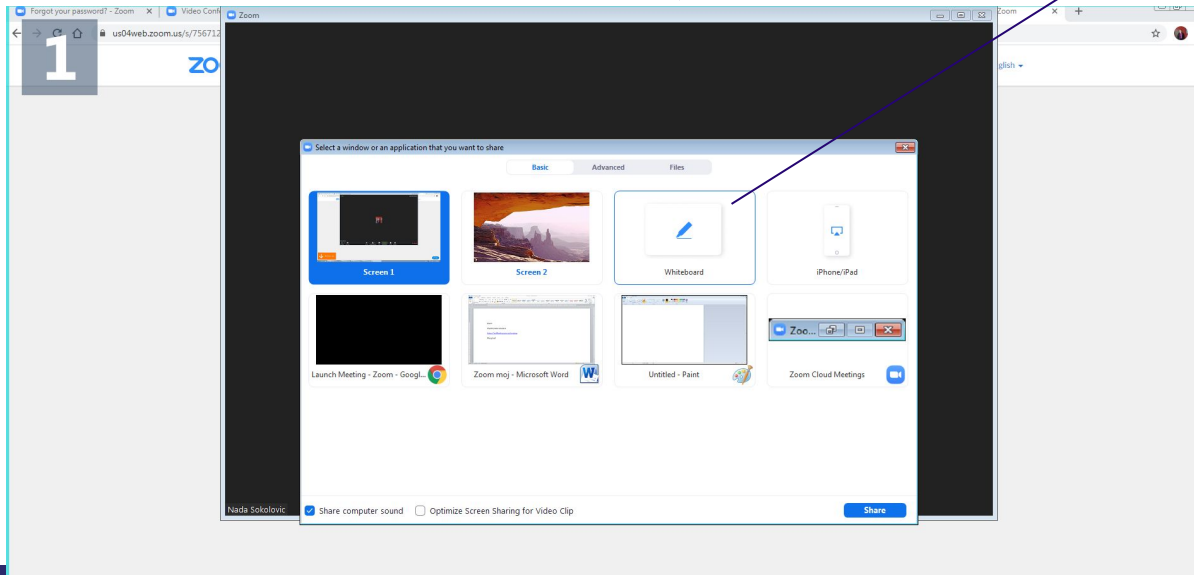
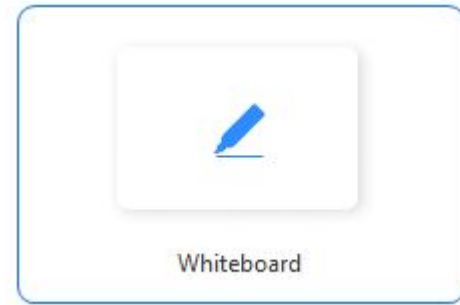
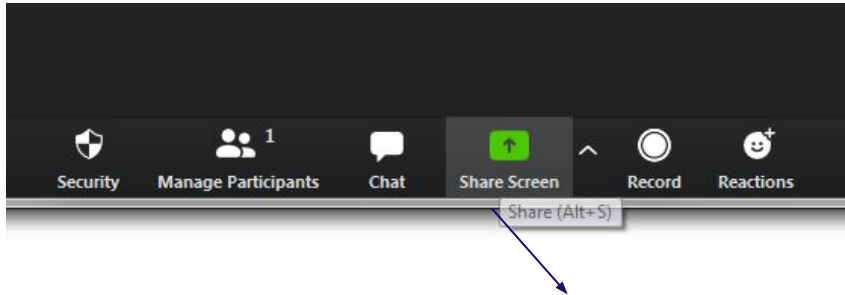
Zoom je alat za realizaciju video časova u realnom vremenu. Omogućava da nastavnik/ca otvori virtualnu tablu (whiteboard) i da je koristi sam/a ili u saradnji sa učenicima (share).

Nedostatak je što je vrlo nezgodno pisati po ovoj tabli ako uređaj nema screentouch.

Zoom

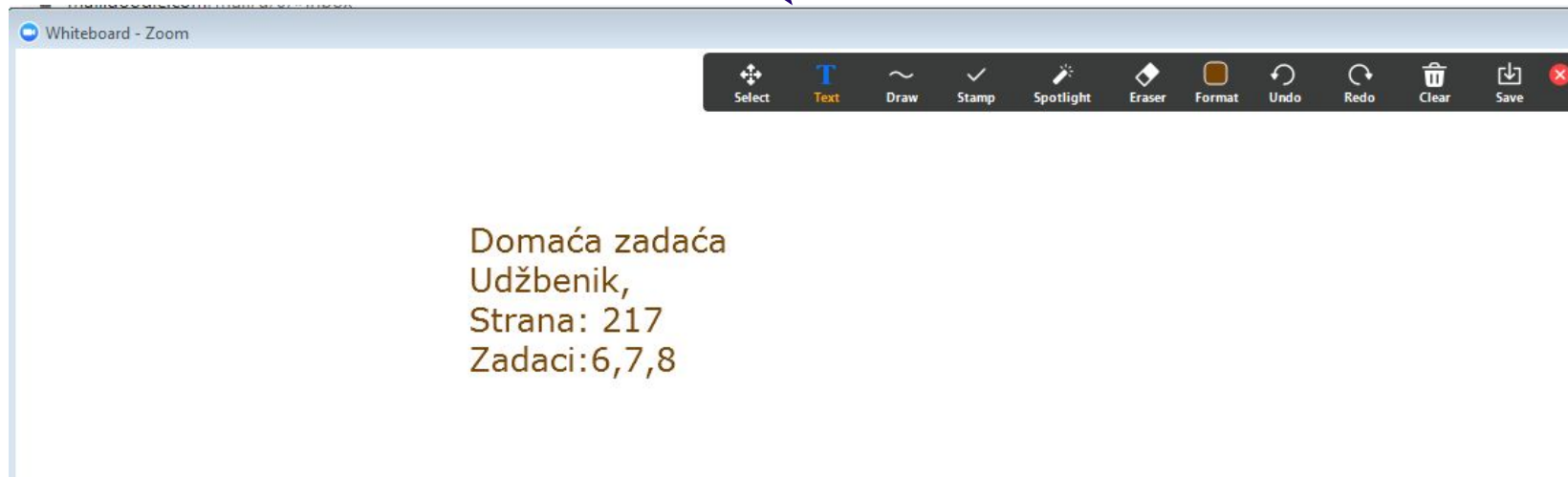


Podijelimo ekran i odaberemo tablu



Zoom

Možemo dodati tekst pomoću tastature

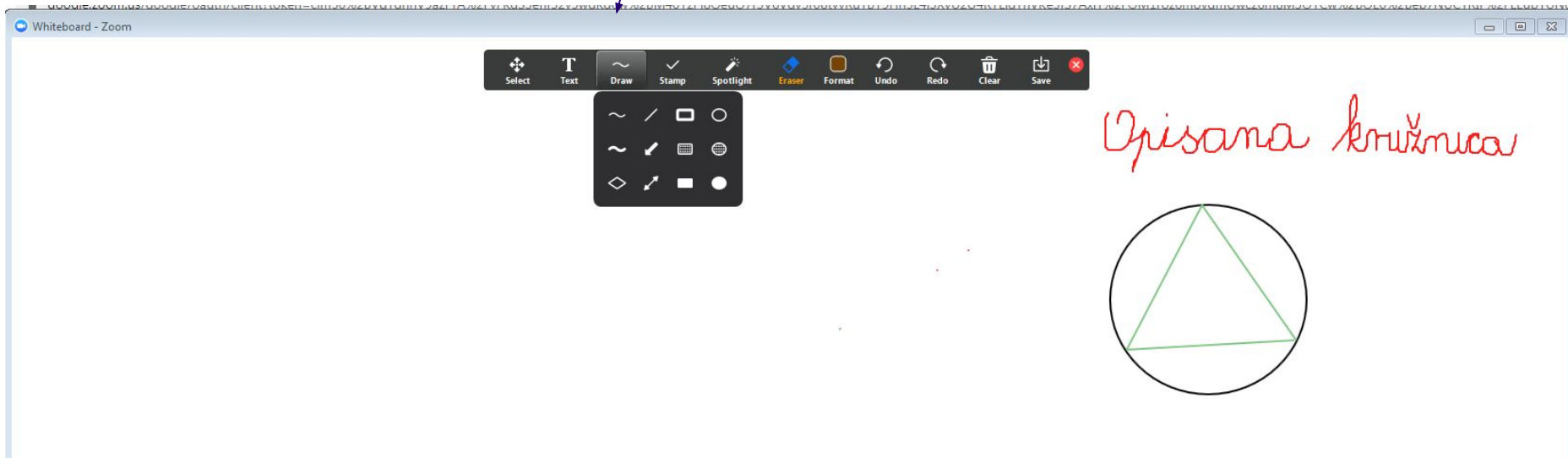
A screenshot of a whiteboard application window titled 'Whiteboard - Zoom'. The window has a toolbar at the top with icons for Select, Text, Draw, Stamp, Spotlight, Eraser, Format, Undo, Redo, Clear, and Save. The 'Text' icon is highlighted in blue. Below the toolbar, the text 'Domaća zadaća', 'Udžbenik,', 'Strana: 217', and 'Zadaci:6,7,8' is typed in a brown font. A blue arrow points from the title text above to the 'Text' icon in the toolbar.

Whiteboard - Zoom

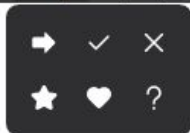
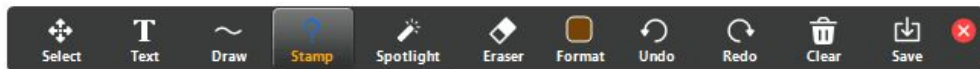
Select Text Draw Stamp Spotlight Eraser Format Undo Redo Clear Save

Domaća zadaća
Udžbenik,
Strana: 217
Zadaci:6,7,8

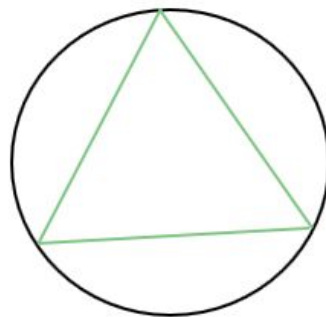
Draw

A screenshot of a Zoom whiteboard interface. The window title is "Whiteboard - Zoom". A toolbar is visible with icons for Select, Text, Draw, Stamp, Spotlight, Eraser, Format, Undo, Redo, Clear, and Save. A sub-menu for the Draw tool is open, showing options for line, rectangle, circle, arrow, grid, and other drawing tools. On the whiteboard, the text "Opisana kružnica" is written in red cursive. Below the text is a diagram of a circle with an inscribed triangle, drawn in green.

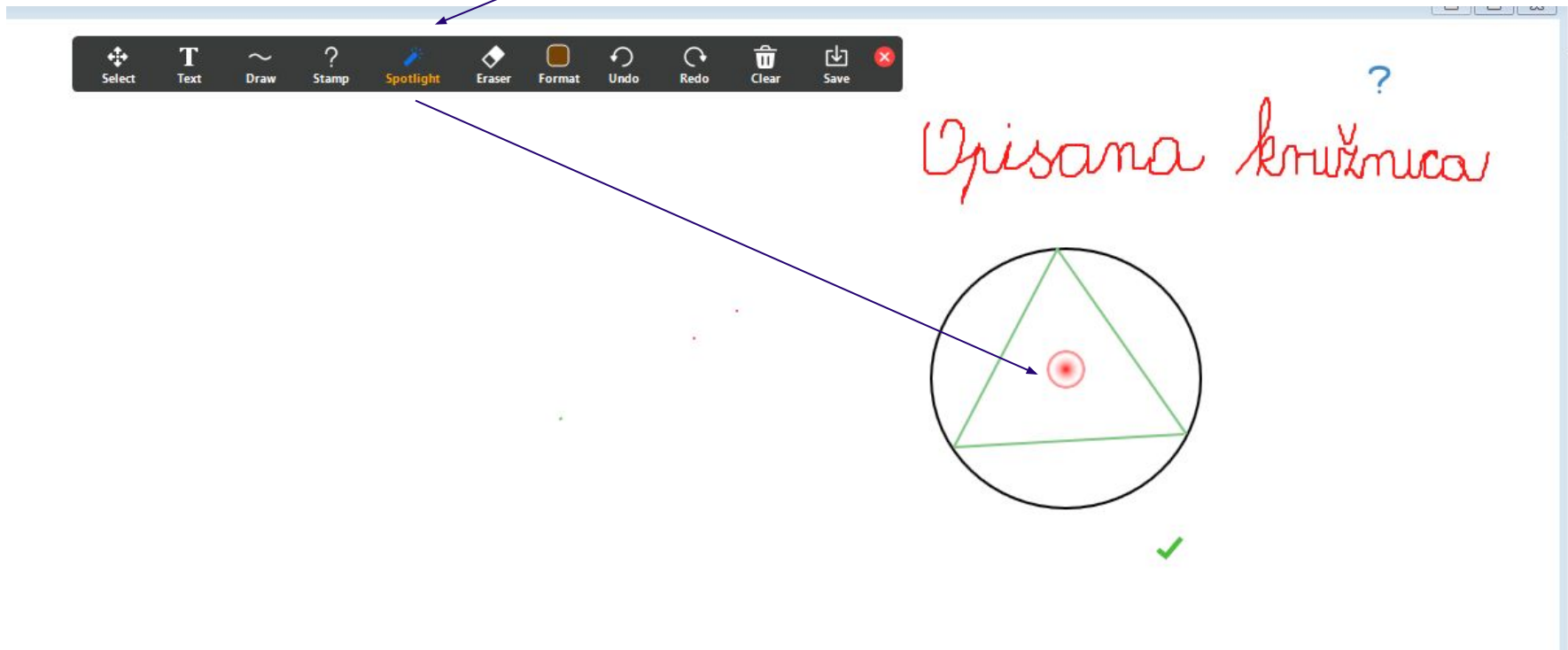
Pečat



Opisana kružnica



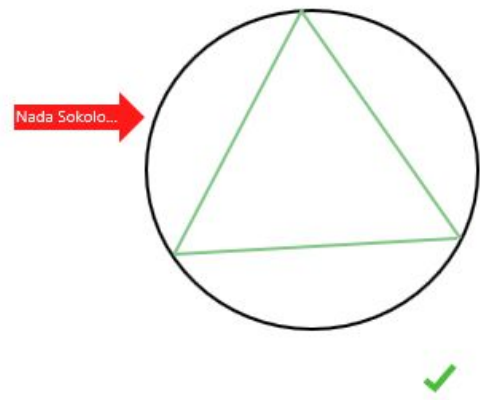
Spotlight (reflektor)

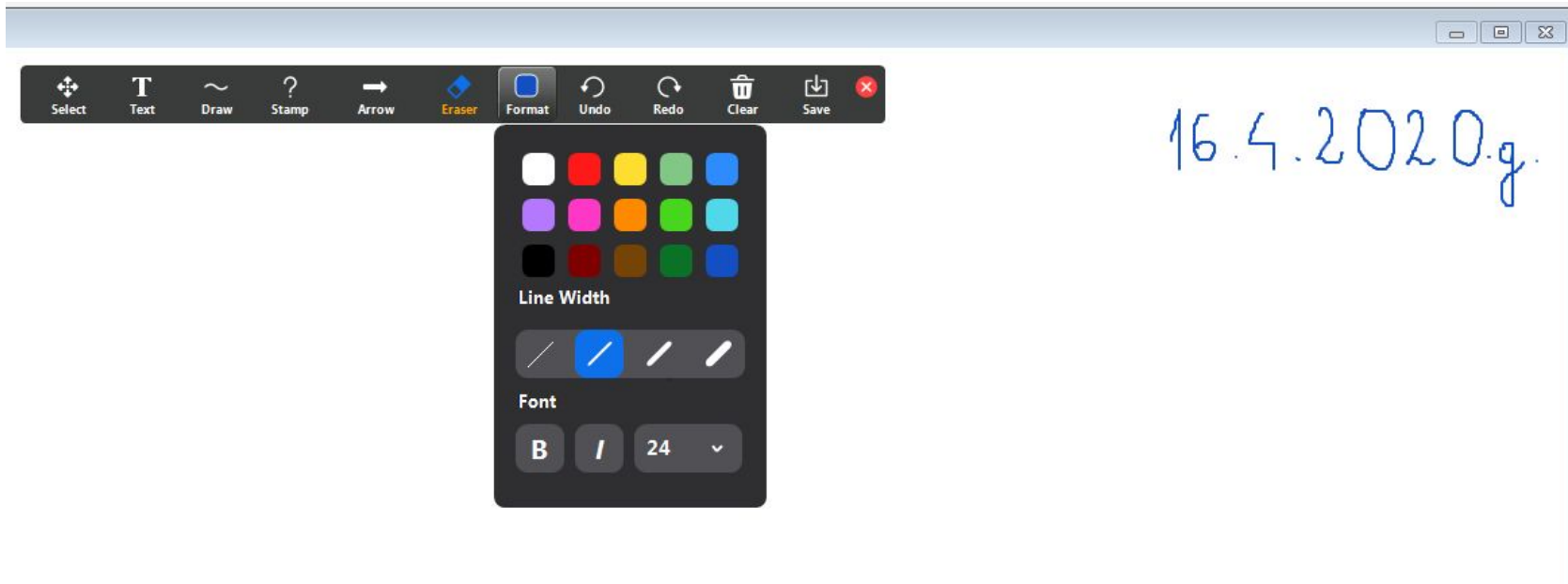


The screenshot shows a digital whiteboard interface. At the top, a toolbar contains various tools: Select, Text, Draw, Stamp, Spotlight (highlighted in orange), Eraser, Format, Undo, Redo, Clear, and Save. A blue arrow points from the title 'Spotlight (reflektor)' to the Spotlight tool icon. Below the toolbar, the text 'Opisana kružnica' is written in red cursive. A diagram shows a black circle with a green inscribed triangle. A red dot with a red glow is placed at the center of the triangle, representing the circumcenter. A blue arrow points from the Spotlight tool to this red dot. A blue question mark is visible above the text, and a green checkmark is below the diagram.

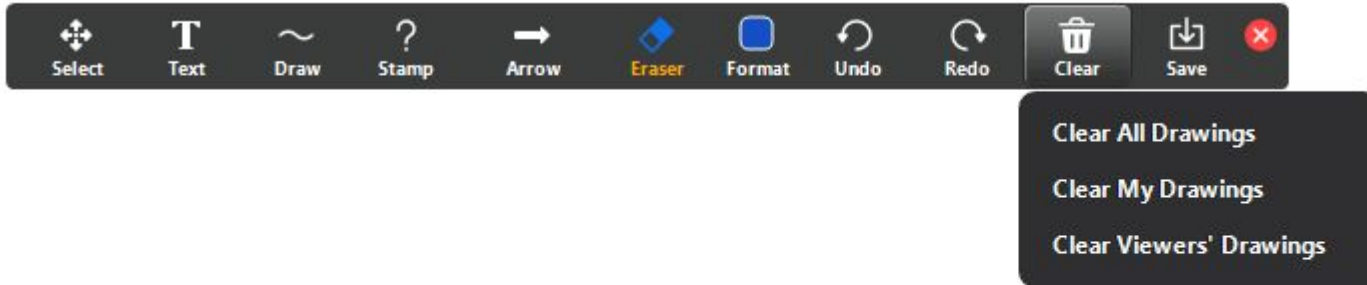


Opisana kružnica ?



A screenshot of a digital drawing application. At the top is a toolbar with icons for Select, Text, Draw, Stamp, Arrow, Eraser, Format, Undo, Redo, Clear, and Save. Below the toolbar is a floating panel with a color palette (16 colors), a "Line Width" section with four line thickness options (the second is selected), and a "Font" section with buttons for Bold (B), Italic (I), and a font size dropdown set to 24. The main canvas on the right shows the handwritten text "16.4.2020.g." in blue ink.

Brisanje

A horizontal toolbar with various drawing tools. From left to right: Select (crosshair), Text (T), Draw (wavy line), Stamp (?), Arrow (right arrow), Eraser (blue eraser), Format (blue square), Undo (curved arrow left), Redo (curved arrow right), Clear (trash can), and Save (download icon with a red X). The Clear button is highlighted, and a dropdown menu is open below it, containing three options: "Clear All Drawings", "Clear My Drawings", and "Clear Viewers' Drawings".

Select Text Draw Stamp Arrow Eraser Format Undo Redo Clear Save

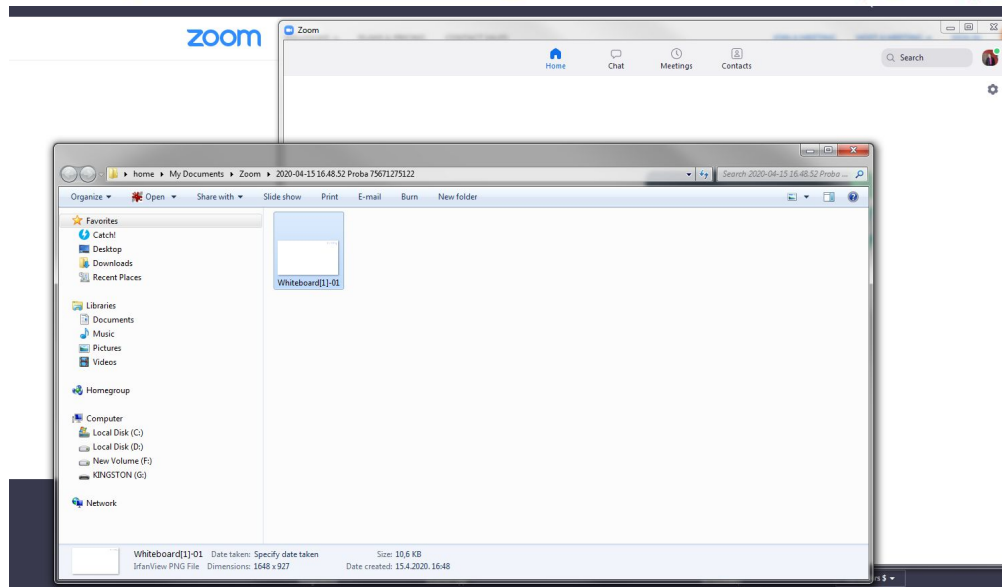
- Clear All Drawings
- Clear My Drawings
- Clear Viewers' Drawings

Virtuelnu tablu možemo spasiti



Whiteboard saved. Show in Folder

16.4.2020.g.



Fotografija table

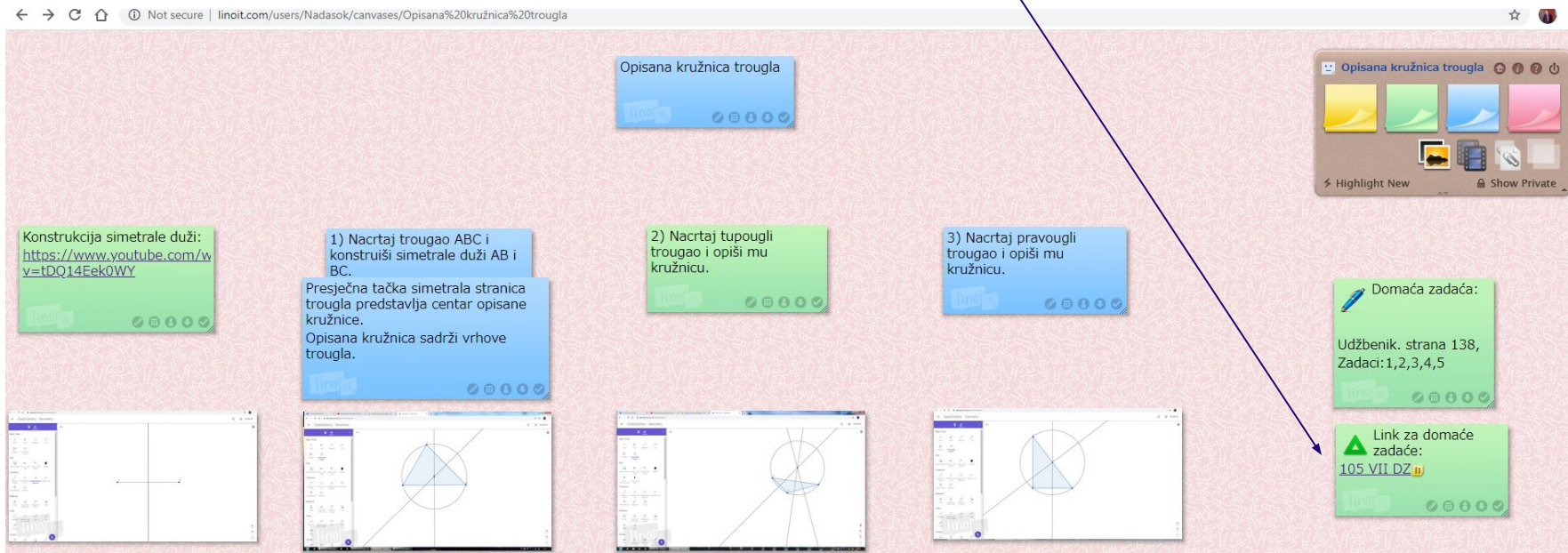


U donjem desnom uglu možemo odabrati opciju i dodati ...



Linoit tabla

Primjer: Opisana kružnica trougla (sadrži tekst, linkove, fotografije).



Opisana kružnica trougla

Konstrukcija simetrale duži:
<https://www.youtube.com/watch?v=tDQ14Eek0WY>

1) Nacrtaј trougao ABC i konstruiši simetrale duži AB i BC.
 Presječna tačka simetrala stranica trougla predstavlja centar opisane kružnice.
 Opisana kružnica sadrži vrhove trougla.

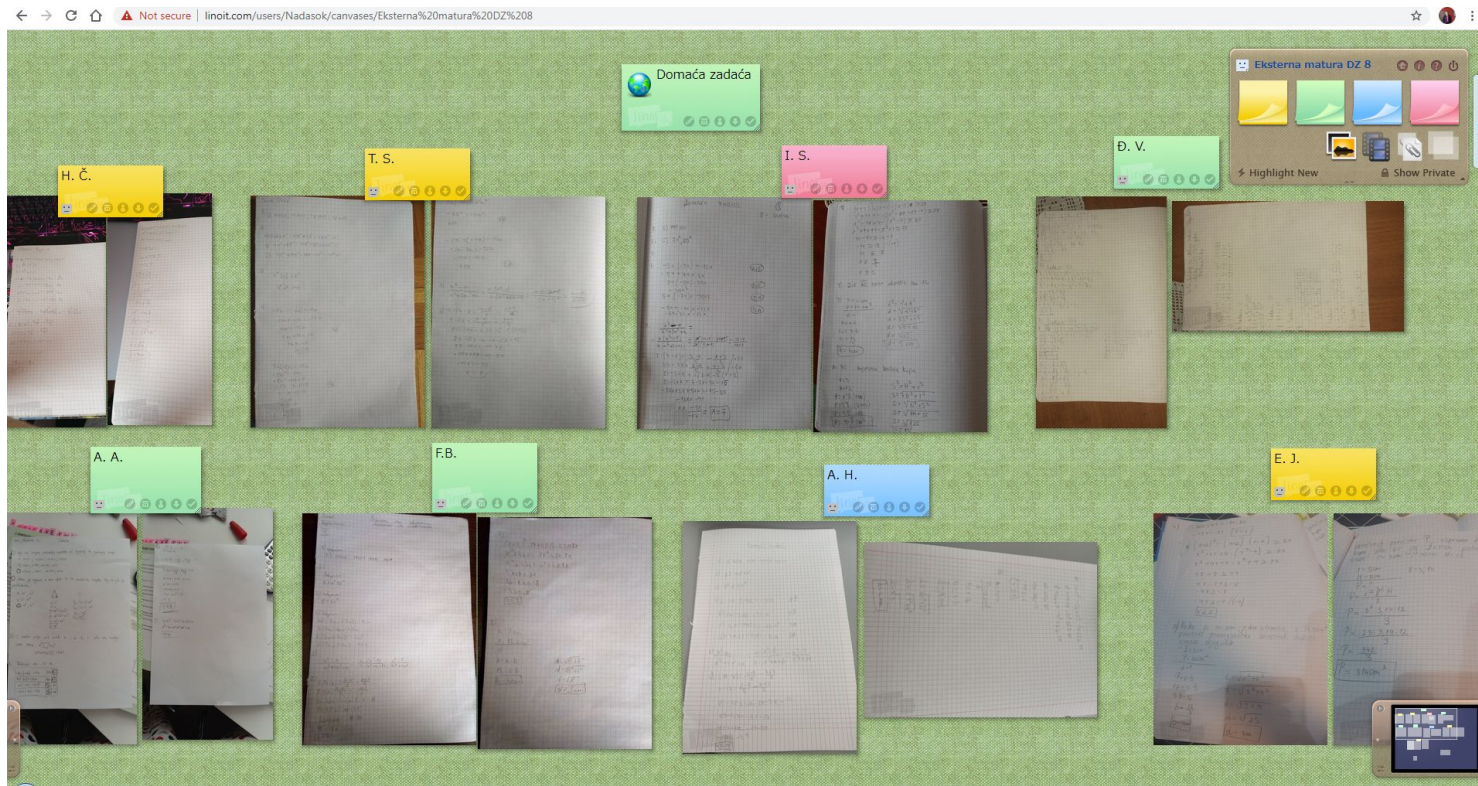
2) Nacrtaј tupougli trougao i opiši mu kružnicu.

3) Nacrtaј pravougli trougao i opiši mu kružnicu.

Domaća zadaća:
 Udžbenik. strana 138,
 Zadaci: 1,2,3,4,5

Link za domaće zadaće:
[105 VII DZ](#)

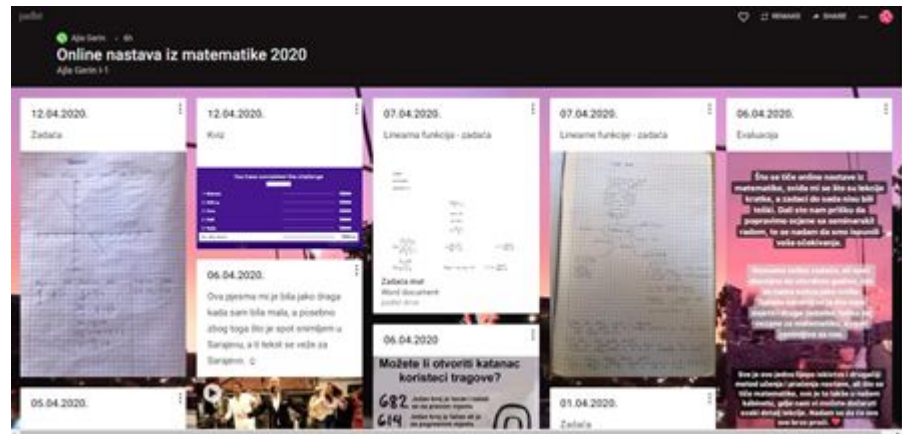
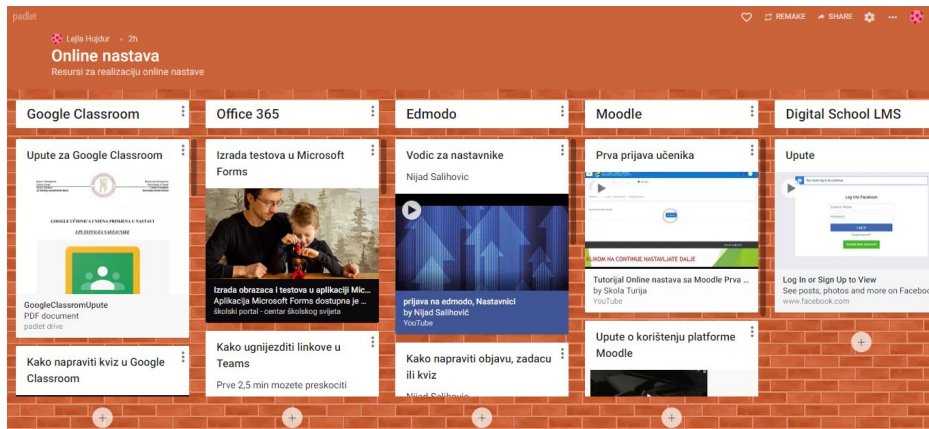
Primjer: Domaće zadaće učenika/ica.



Padlet-primjeri iz prakse

Prednosti:

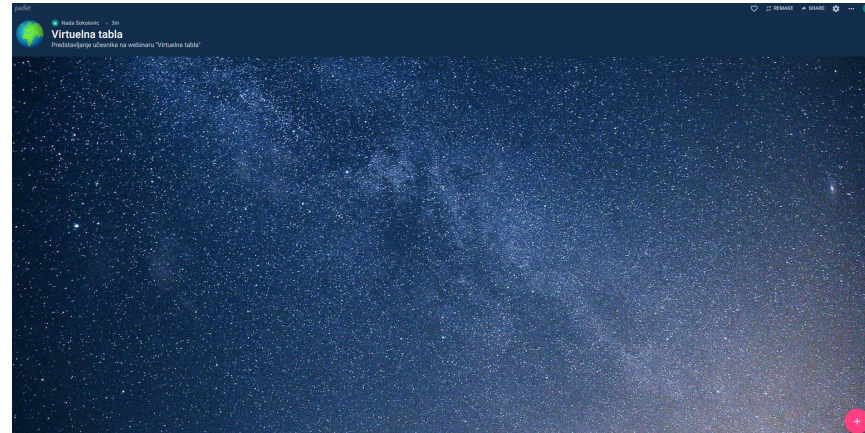
- Besplatan alat,
- Učenici ne moraju biti registrovani da bi pristupili i pogledali ili uređivali padlet,
- Dopušta postavljanje linkova, dokumenata, prezentacija, fotografija, drugih padleta,...
- Vrlo jednostavan za korištenje,
- Pogodan za upotrebu i kao online sveska.



Primjer:

Predstavite se u Padletu. Iz kog ste grada i države? Koji predmet predajete?

<https://padlet.com/nada1912020/33ce9rc3jsv4>



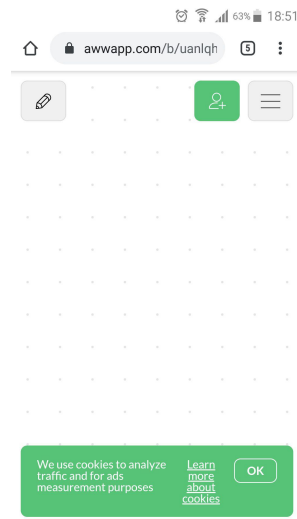
Kliknite na krug dole-desno.

<https://awwapp.com/>

Tabla po kojoj možemo pisati sa učenicima ili saradnicima u projektima u realnom vremenu.

Tablu možemo koristiti i pomoću mobitela.

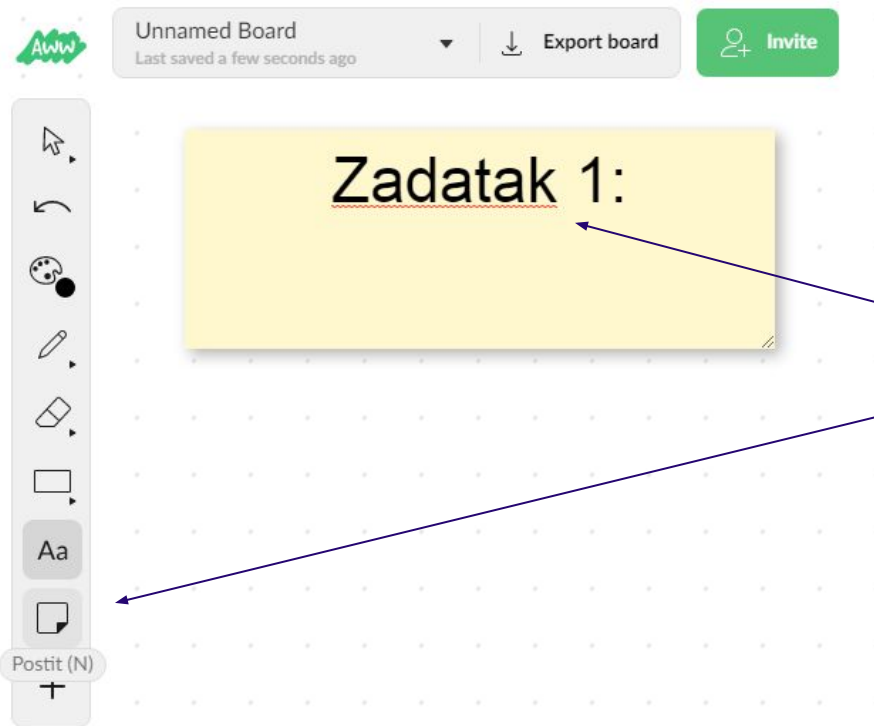
Besplatna za osnovne alate i dijeljenje.



Učenici ne moraju biti registrovani da bi pristupili, pregledali ili uređivali.

Napomena: Kada se odlučite da koristite tablu, pripremite jednu tablu da učenici probaju pisati i crtati po njoj i da se poigraju.

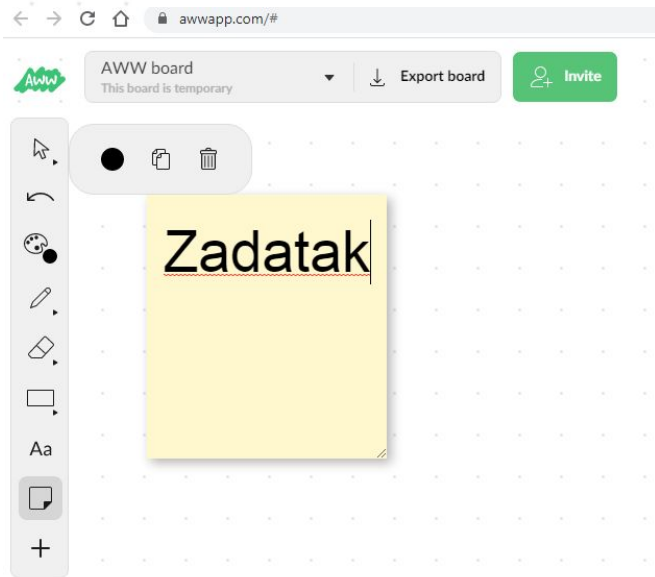
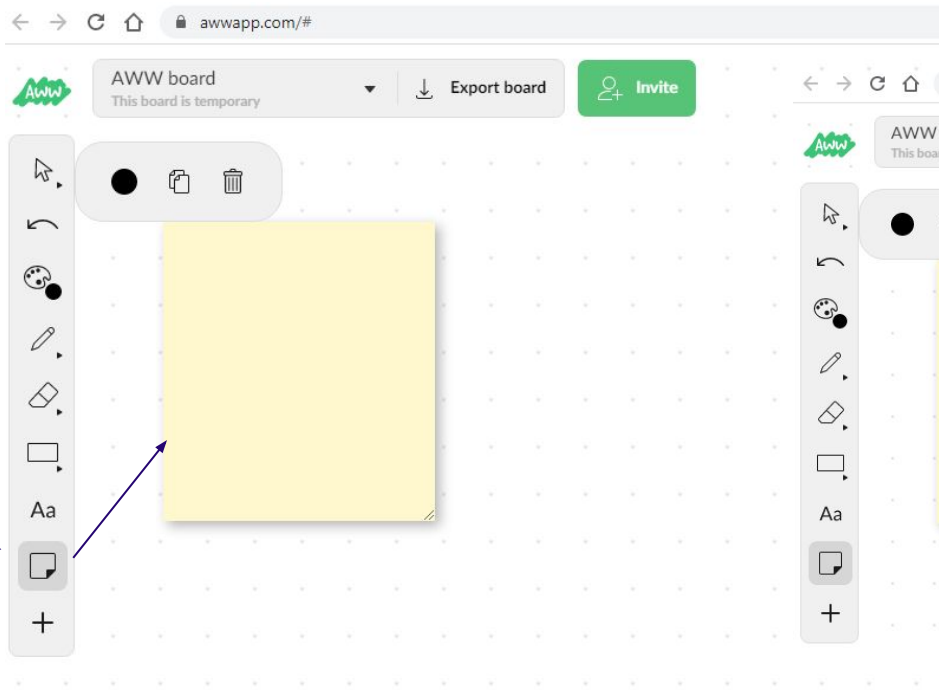
<https://awwapp.com/#>



The screenshot shows the Awwapp interface. At the top left is the Awwapp logo. The main area is titled 'Unnamed Board' with a dropdown arrow, 'Last saved a few seconds ago', and an 'Export board' button. To the right is a green 'Invite' button with a person icon. On the left is a vertical toolbar with icons for selection, undo, eraser, pencil, shape tools, text (Aa), and a 'Postit (N)' button. The main workspace is a grid with a yellow sticky note containing the text 'Zadatak 1:'. The text 'Zadatak 1:' is underlined, and a red dashed line indicates the cursor position at the end of the text.

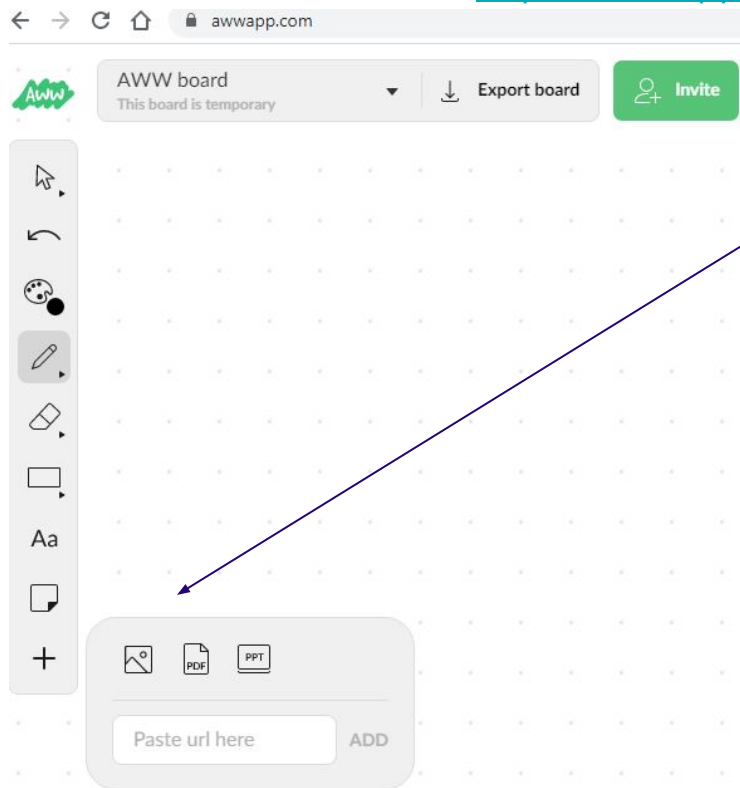
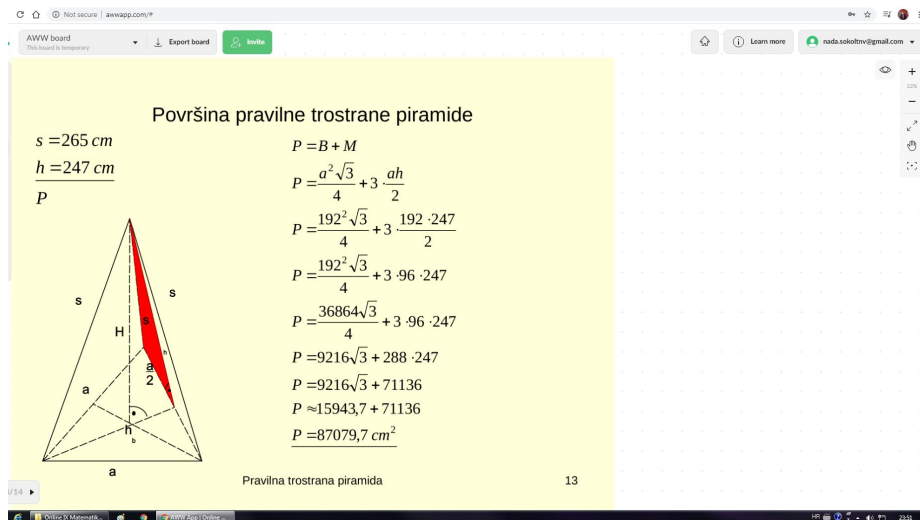
Prednost ove table je što pored mogućnosti da koristimo olovku, postoji mogućnost i za unos teksta pomoću tastature.

Kada
želimo
napisati
tekst
kliknemo
na:



<https://awwapp.com/#>

Prednosti:
Možemo dodati svoje prezentacije, fotografije, nastavne listiće.

Površina pravilne trostrane piramide

$$s = 265 \text{ cm}$$

$$h = 247 \text{ cm}$$

$$P$$

$$P = B + M$$

$$P = \frac{a^2 \sqrt{3}}{4} + 3 \frac{ah}{2}$$

$$P = \frac{192^2 \sqrt{3}}{4} + 3 \frac{192 \cdot 247}{2}$$

$$P = \frac{192^2 \sqrt{3}}{4} + 3 \cdot 96 \cdot 247$$

$$P = \frac{36864 \sqrt{3}}{4} + 3 \cdot 96 \cdot 247$$

$$P = 9216 \sqrt{3} + 288 \cdot 247$$

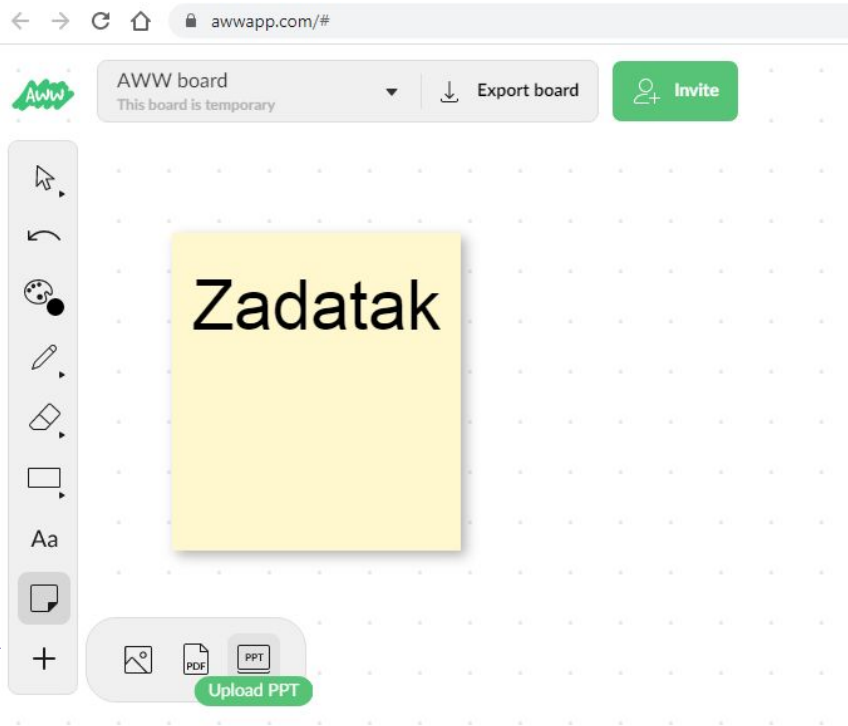
$$P = 9216 \sqrt{3} + 71136$$

$$P \approx 15943,7 + 71136$$

$$P = 87079,7 \text{ cm}^2$$

Pravilna trostrana piramida

13



AWW board
This board is temporary

Export board

Invite

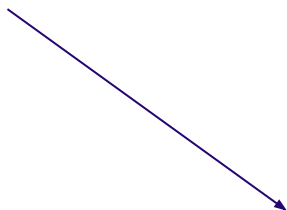
Zadatak

Aa

+

Upload PPT

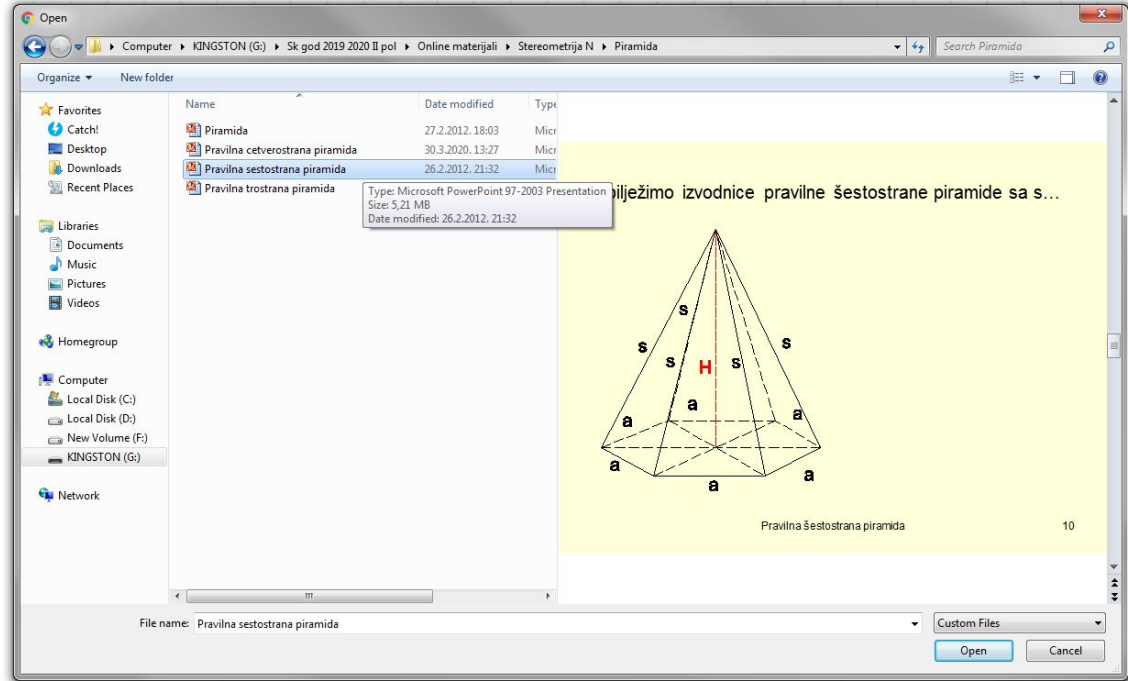
Kako dodati
svoju
prezentaciju?



Kako dodati svoju prezentaciju?

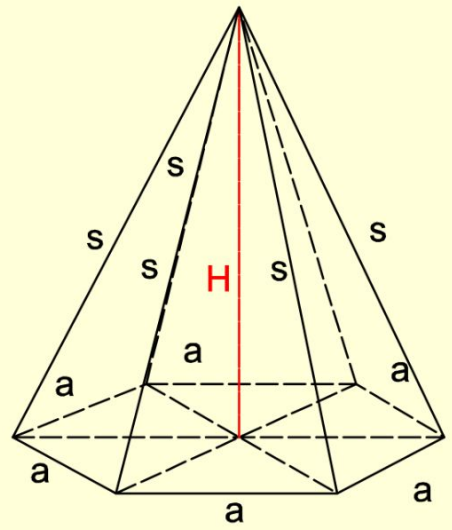


Zadatak





Obilježimo izvodnice pravilne šestostrane piramide sa s...



Pravilna šestostrana piramida

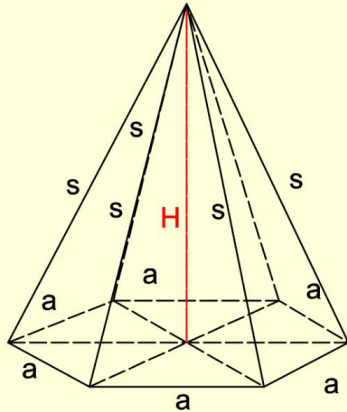
Pored prezentacije, možemo pisati tekst

AWW board
This board is temporary

Export board Invite

Learn more

Obilježimo izvodnice pravilne šestostrane piramide sa s...



Pravilna šestostrana piramida

10/17

10

$$P = B + M$$

$$V = \frac{1}{3} B \cdot H$$

Na prezentaciji
možemo
istaknuti
olovkom,
obilježiti,...

AWW board
This board is temporary

Export board Invite

Learn more

nada.2

Obilježimo izvodnice pravilne šestostrane piramide sa s...

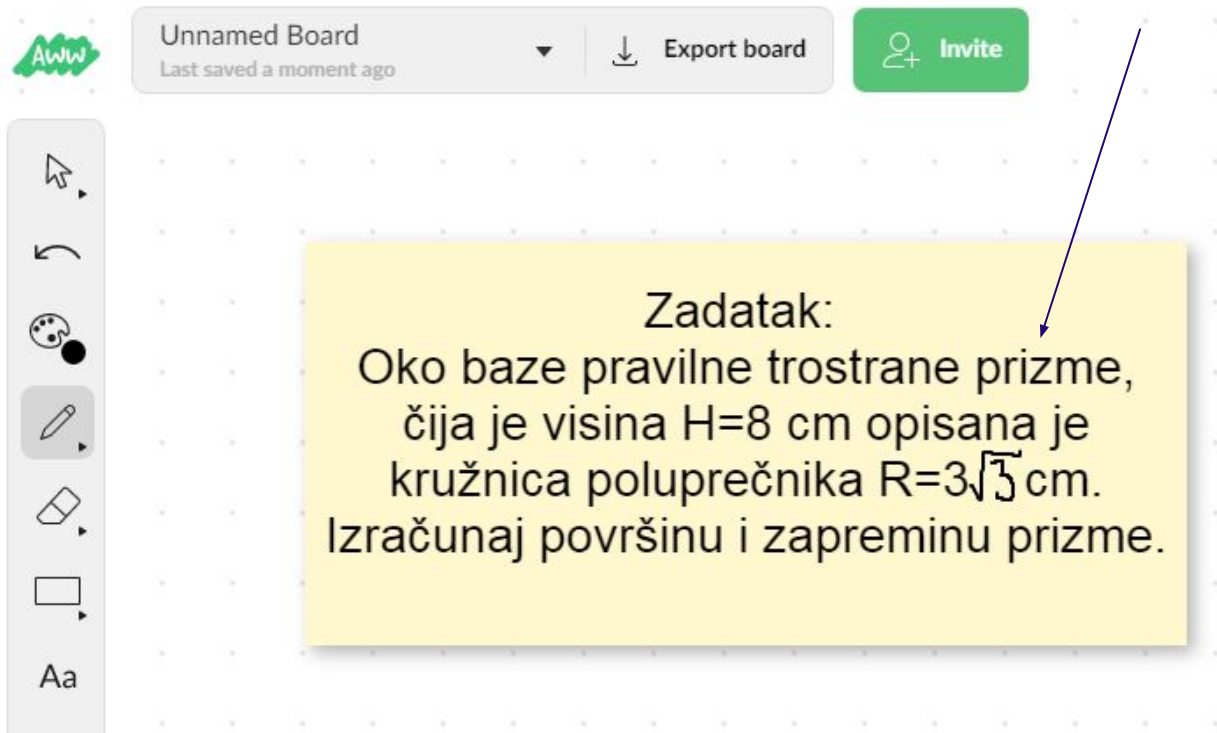
Pravilna šestostrana piramida

10

10/17

$$P = B + M$$

$$V = \frac{1}{3} B \cdot H$$



AwW

Unnamed Board
Last saved a moment ago

Export board

Invite

Zadatak:
Okolo baze pravilne trostrane prizme,
čija je visina $H=8$ cm opisana je
kružnica poluprečnika $R=3\sqrt{3}$ cm.
Izračunaj površinu i zapreminu prizme.

Aa

Sa desne strane nalazi se alatna traka za saradnju (za tekstualni chat i navigaciju na tabli).



Unnamed Board
Last saved a few seconds ago

Export board Invite You are now sharing your pointer position with everyone on the board

Learn more nada.sokoltnv@gmail.com

Obilježimo izvodnice pravilne šestostrane piramide sa s...

Pravilna šestostrana piramida

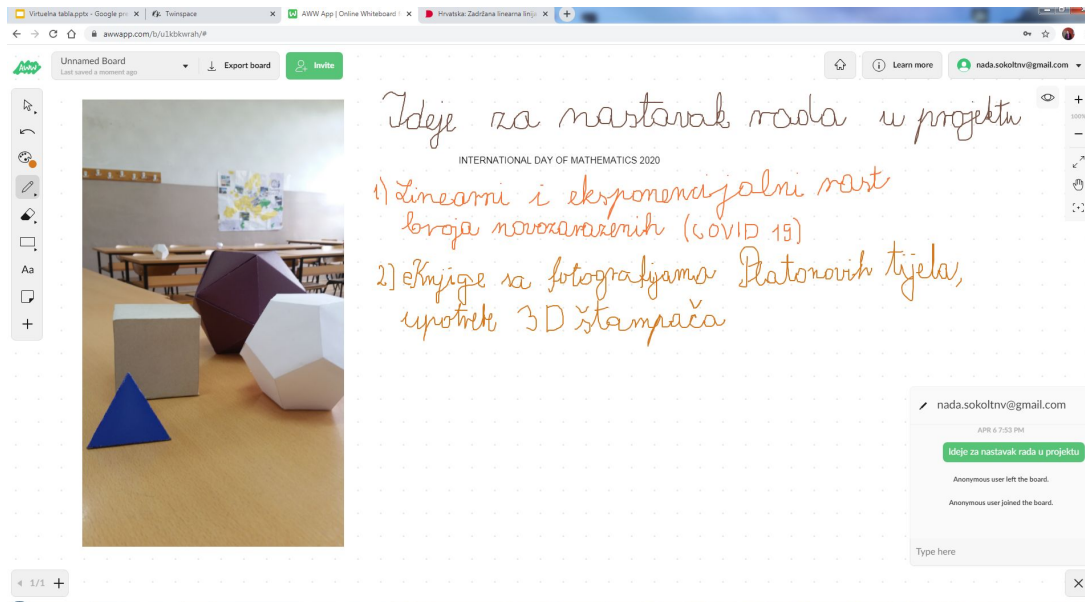
10/17 10

nada.sokoltnv@gmail.com

Type here

Primjer:

Ideje za nastavak rada u eTwinning projektu “International day of mathematics 2020”

Virtualna tablica - Google print | Twinspace | AWW App | Online Whiteboard | Hrvatska Zadržana linearna trij... | awwapp.com/h/ulktkwrsh/#

Unnamed Board
Last saved at 10:00:00 am | Export board | Invite | nada.sokoltrn@gmail.com

Ideje za nastavak rada u projektu
INTERNATIONAL DAY OF MATHEMATICS 2020

- 1) Linearni i eksponencijalni rast broja novooboljelih (COVID 19)
- 2) Knjige sa fotografijama Platonovih tijela, upotrebu 3D štampača

nada.sokoltrn@gmail.com
APR 6 7:53 PM
Ideje za nastavak rada u projektu
Anonymous user left the board.
Anonymous user joined the board.
Type here

Ideje za nastavak rada u projektu “International day of mathematics 2020”

Saradnici se dogovaraju kako povezati matematiku i COVID 19.

 **Nada Sokolovic**

Primjer upotrebe AWW App: možemo pisati po ploči u isto vrijeme, kada i naši saradnici.



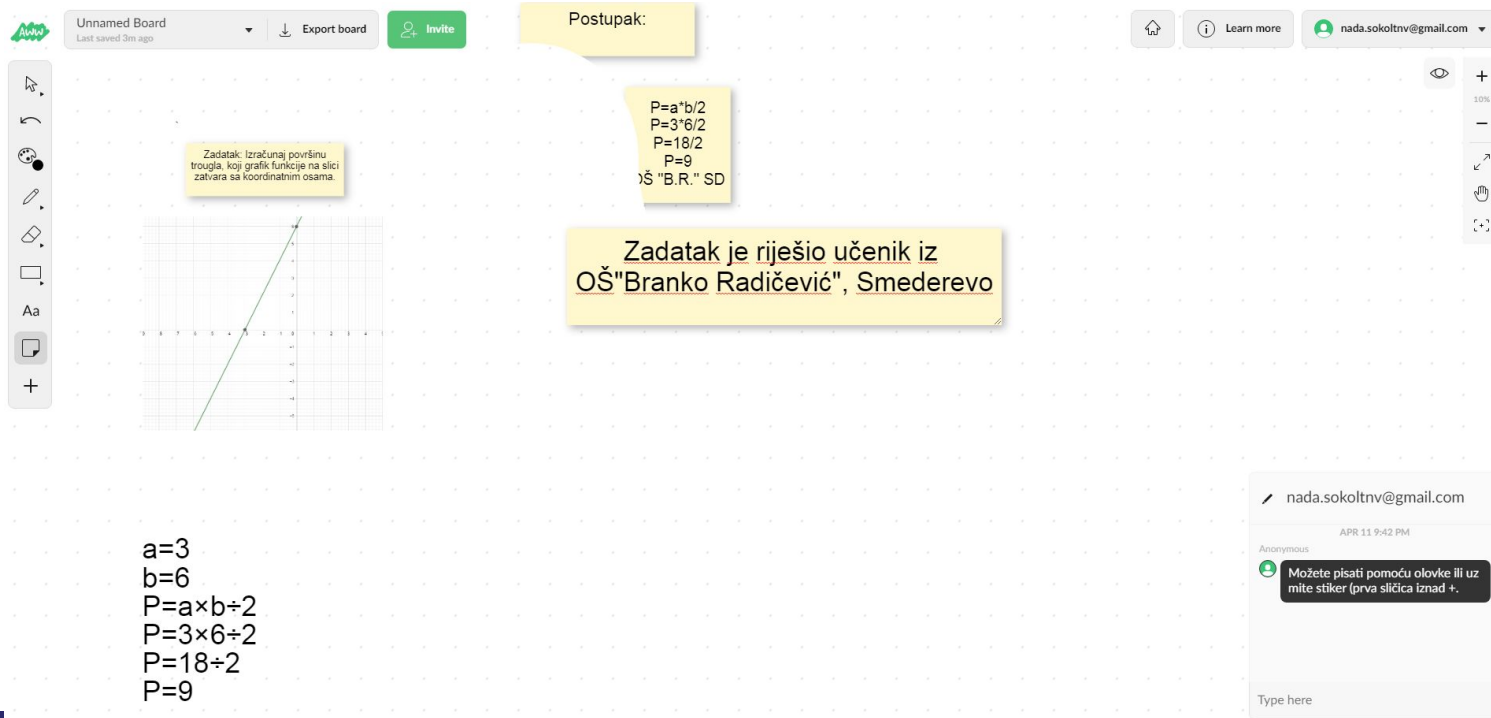
Pozitivna mišljenja • Komentari • Uredite • Obrišite • Zakačite

Prednost: mogućnost saradnje u realnom vremenu.

Zadatak i rješenje iz oblasti "Linearna funkcija".

https://awwapp.com/b/u1tsaoydbeysu/?fbclid=IwAR1Ku-55Ylq6QKG5_o5Jt7RVoLRadmzTQ7HxYZqMPj6IGuwWVnZ3JKkDh

20



The screenshot shows a digital workspace with a grid background. At the top left, there is a toolbar with various drawing tools. The main area contains several yellow sticky notes and a graph.

Postupak:

$P = a \cdot b / 2$
 $P = 3 \cdot 6 / 2$
 $P = 18 / 2$
 $P = 9$
 OŠ "B.R." SD

Zadatak je riješio učenik iz OŠ "Branko Radičević", Smederevo

Zadatak: Izračunaj površinu trougla, koji grafik funkcije na slici zatvara sa koordinatnim osama.

The graph shows a coordinate system with a line passing through the points (0, 6) and (3, 0). The area under the line and above the x-axis is shaded, representing a right-angled triangle with a base of 3 and a height of 6.

$a = 3$
 $b = 6$
 $P = a \cdot b / 2$
 $P = 3 \cdot 6 / 2$
 $P = 18 / 2$
 $P = 9$

At the bottom right, there is a chat window from 'nada.sokoltnv@gmail.com' dated 'APR 11 9:42 PM'. The message says: 'Možete pisati pomoću olovke ili uz mite stiker (prva slička iznad +)'. Below the message is a text input field with the placeholder 'Type here'.

Tablu možete i sačuvati (ukoliko ste prijavljeni) i još...

The screenshot displays the Awwapp interface. On the left, a vertical toolbar contains various drawing tools. A menu is open, listing several actions: Save board, Duplicate, Delete, Rename, Open a saved board, Create from templates, Create new board, Manage participants, and Delete all pages. A blue arrow points from the main title to the 'Save board' option. The main workspace shows a yellow background with a diagram of a regular hexagonal pyramid. The diagram is labeled with 's' for the slant height of the triangular faces and 'a' for the side length of the hexagonal base. A red vertical line represents the height 'H' of the pyramid. The text 'no izvodnice pravilne šestostrane piramide sa s...' is partially visible above the diagram. Below the diagram, the text 'Pravilna šestostrana piramida' and the page number '10' are shown. The top of the interface includes a browser address bar, a board title 'Unnamed Board', and an 'Export board' button. The bottom right corner features a chat window with the email 'nada.sokoltnv@gmail.com' and a 'Type here' input field.

Možemo kopirati link ili QR kod i postaviti na bilo koju web stranicu:

Primjer:

Share this board

Here you can share this board and enable people to edit this board in real-time. Keep in mind that you can invite an unlimited number of people.

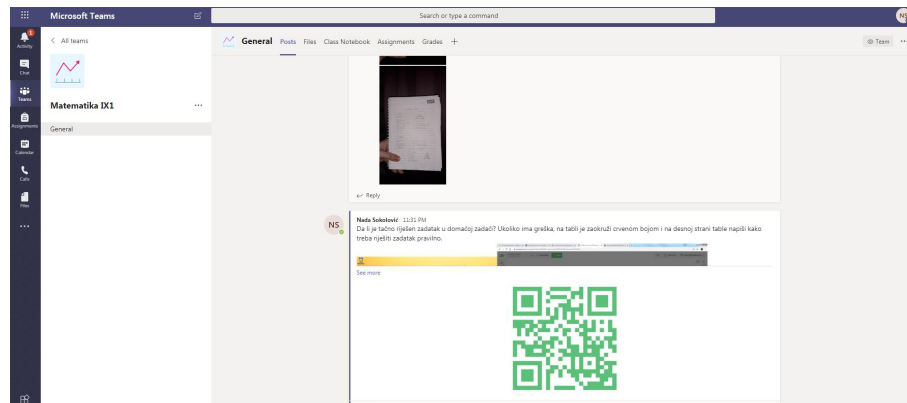
Allow everyone to edit
Allow everyone to view
Share a copy for each user

Share via URL link
Board link
Copy link

Invite via Email
https://awwapp.com/b/u1tsaoydbeysu/

Embed via iFrame

Share via social media
QR Code



Svako može uređivati:

Share this board

Here you can share this board and enable people to edit this board in real-time. Keep in mind that you can invite an unlimited number of people.



Allow everyone to edit ⓘ

Allow everyone to view ⓘ

Share a copy for each user ⓘ

Share via URL link

Invite via Email

Embed via iFrame

Board link

<https://awwapp.com/b/unoumscmiifsa/>

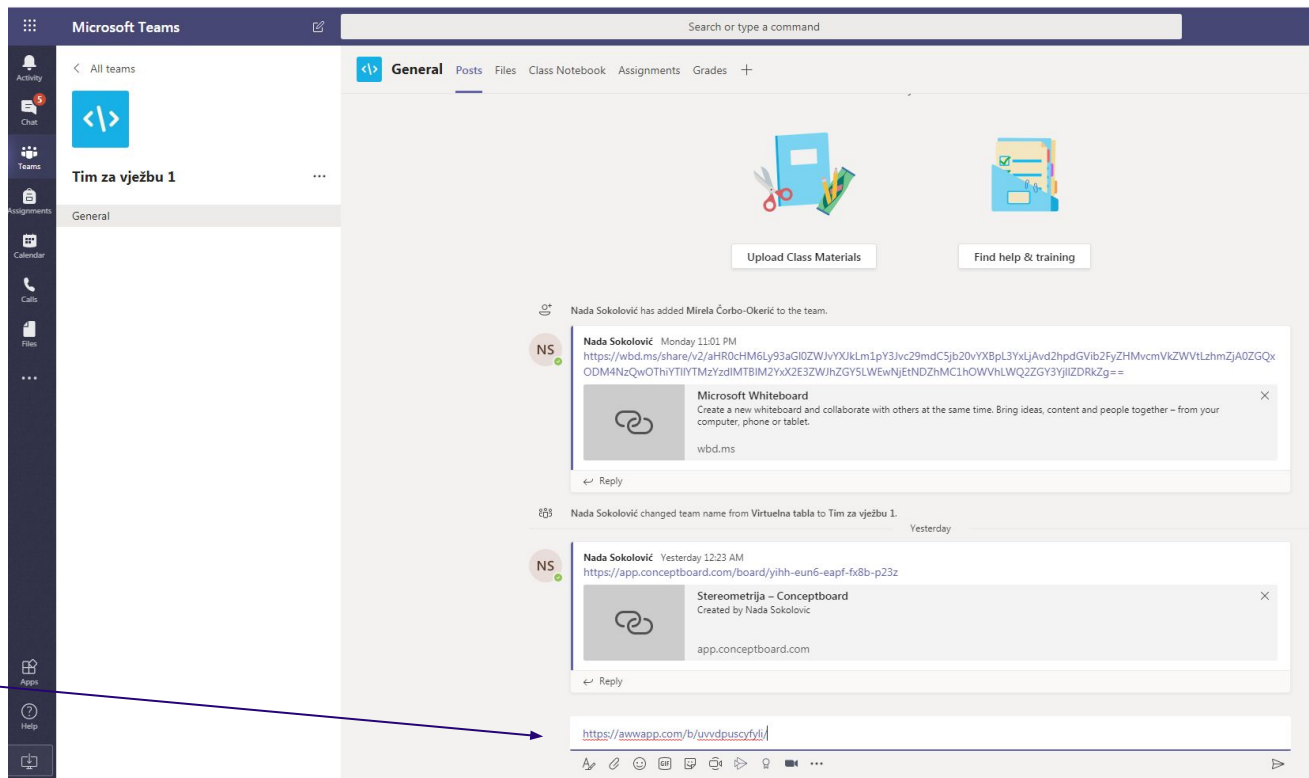
Copy link

Share via social media



QR Code

Samo za pregledati:



The screenshot shows the Microsoft Teams interface. On the left is a navigation pane with icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays a chat window for a team named "Tim za vježbu 1". The chat history includes a system message about a team member addition, a message from Nada Sokolović sharing a "Microsoft Whiteboard" link, and another message from Nada Sokolović sharing a "Stereometrija - Conceptboard" link. At the bottom of the chat, a text input field contains the URL <https://awwapp.com/b/uwdpuscyfvl/>. A blue arrow points from the "CTRL+V" text on the left to this input field.

CTRL+V

CTRL+V

<https://awwapp.com/b/uvvdpuscyfyli/>



today



Nada Sokolović 12:01 AM

<https://awwapp.com/b/uvvdpuscyfyli/>

← Reply

Start a new conversation. Type @ to mention someone.



Mogućnost za zajedničko pregledanje domaće zadaće sa učenicima



Unnamed Board
Last saved a moment ago

Export board Invite

nada.sokoltnv@gmail.com

Da li je tačno riješen zadatak?

U osnovna prizma je pravougli trougao čije su katete duge 3cm i 4cm. Izračunaj površinu te prizme, ako je visina 12cm.

$a = 3\text{cm}$
 $b = 4\text{cm}$
 $h = 12\text{cm}$

$P = ?$

$a^2 = a^2 + b^2$
 $a^2 = 3^2 + 4^2$
 $a^2 = 9 + 16$
 $a^2 = 25$
 $a = \sqrt{25}$
 $a = 5\text{cm}$

$P = 2B + M$
 $P = 2 \cdot 6 + 144$
 $P = 12 + 144$
 $P = 156\text{cm}^2$

$B = \frac{ab}{2}$
 $B = \frac{3 \cdot 4}{2}$
 $B = \frac{12}{2}$
 $B = 6\text{cm}$

$M = H(a+b+c)$
 $M = 12 \cdot (3+4+5)$
 $M = 12 \cdot 12$
 $M = 144\text{cm}$

nada.sokoltnv@gmail.com

APR 7 12:57 PM
Asja joined the board.
Asja left the board.
Anonymous user left the board.
Anonymous user joined the board.
Asja joined the board.

Type here

1/1

Mogućnost za zajedničko pregledanje domaće zadaće sa učenicima

← → ↻ 🏠 🔒 awwapp.com/b/u7e4rgxln6qyu/



Unnamed Board

Last saved a few seconds ago



Export board



Invite



Da li je zadatak tačno riješen?

Podvuci greške (ako ih ima) crvenom bojom. Pored zadatka, dio koji je netačan, napiši pravilno.

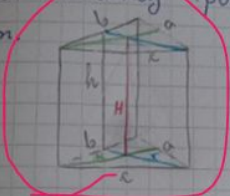


3) Osnova prizme je pravougli trougao čije su katete duge 3cm i 4cm. Izračunaj površinu te prizme, ako je visina 12cm.

$a = 3\text{cm}$
 $b = 4\text{cm}$
 $H = 12\text{cm}$

$P = ?$

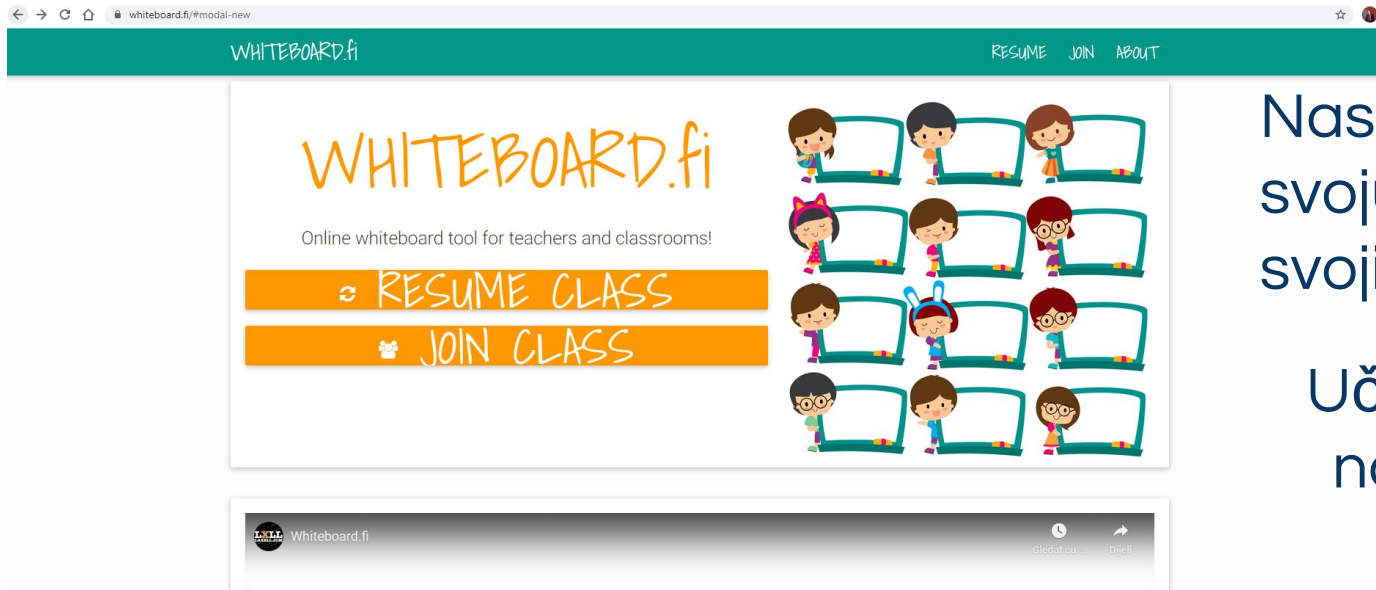
$a^2 = a^2 + b^2$ $P = 2B + M$ $B = \frac{ab}{2}$ $M = H(a+b+c)$
 $a^2 = 3^2 + 4^2$ $P = 2 \cdot 6 + 144$ $B = \frac{3 \cdot 4}{2}$ $M = 12 \cdot (3+4+5)$
 $a^2 = 9 + 16$ $P = 12 + 144$ $B = \frac{12}{2}$ $M = 12 \cdot 12$
 $a^2 = 25$ $P = 156$ $B = 6$ $M = 144$



Zašto su nacrtane težišnice na osnovu prizme?

WHITEBOARD.fi

<https://whiteboard.fi/>

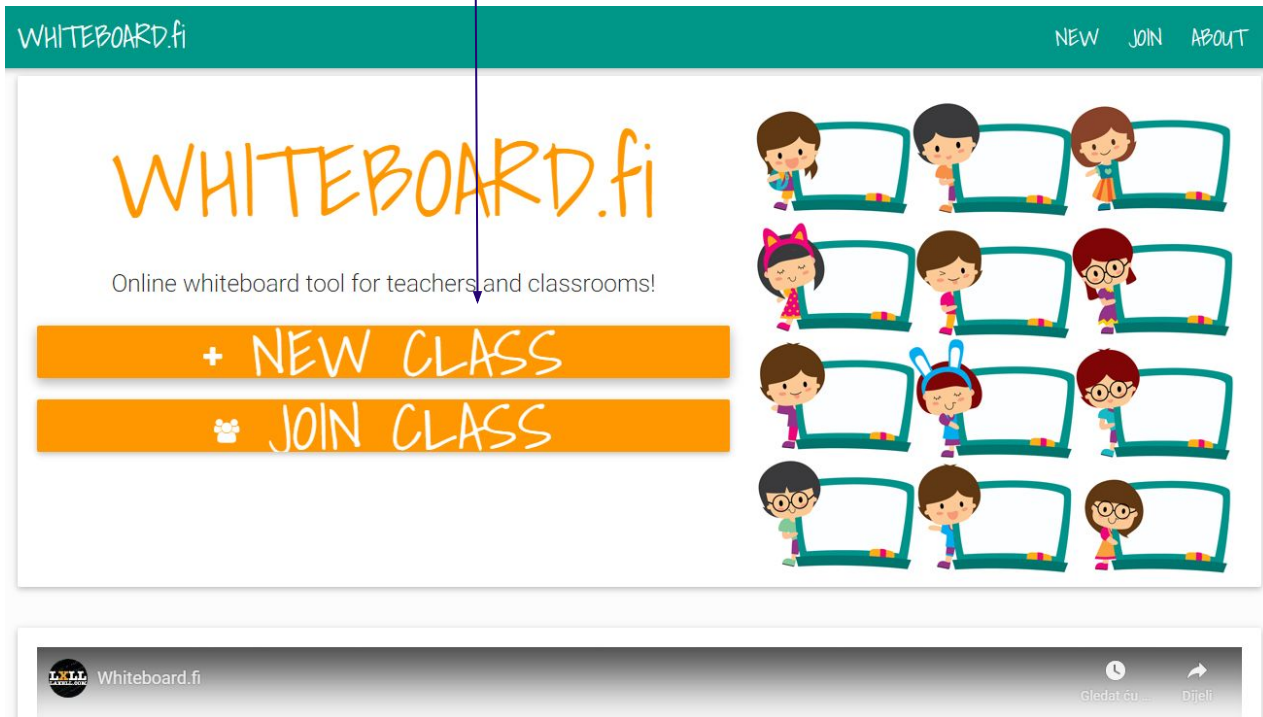


Nastavnik/ca vidi svoju tablu i tablu svojih učenika/ica.

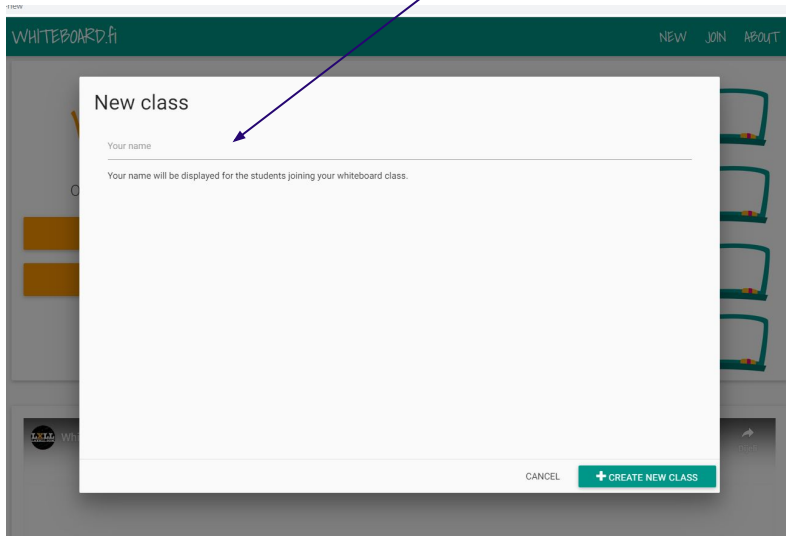
Učenici vide tablu nastavnika/ce i svoju tablu.

Obavezno učenicima naglasite da vi u svakom trenutku vidite njihov rad na tabli.

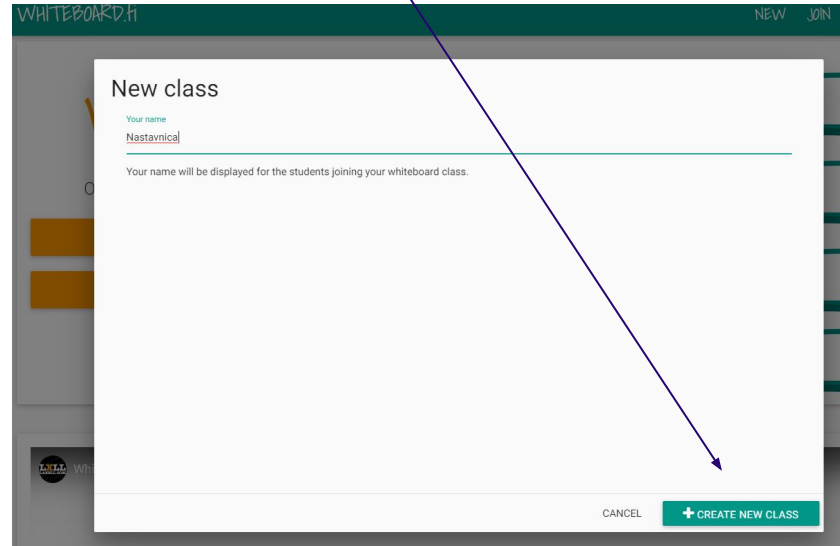
Kliknite na NEW CLASS:

A screenshot of the Whiteboard.fi website. The top navigation bar is green with 'WHITEBOARD.fi' on the left and 'NEW JOIN ABOUT' on the right. The main content area has a white background. On the left, the text 'WHITEBOARD.fi' is written in a large, orange, hand-drawn font. Below it, the text 'Online whiteboard tool for teachers and classrooms!' is displayed. Two orange buttons are stacked vertically: the top one says '+ NEW CLASS' and the bottom one says 'JOIN CLASS' with a small icon of a person. On the right side, there is a 4x3 grid of 12 cartoon children, each standing next to a small whiteboard. A blue arrow points from the 'NEW CLASS' button to the top-left child in the grid. At the bottom, a dark grey footer contains the Whiteboard.fi logo and name on the left, and 'Gledat cu...' and 'Dijeli' with icons on the right.

Napišite svoje ime:

A screenshot of the 'New class' form in the eTwinning interface. The form has a dark green header with 'WHITEBOARD.HI' on the left and 'NEW JOIN ABOUT' on the right. The main content area is white and contains the title 'New class', a label 'Your name', an empty text input field, and a note: 'Your name will be displayed for the students joining your whiteboard class.' At the bottom, there are two buttons: 'CANCEL' and '+ CREATE NEW CLASS'. A purple arrow points from the text 'Napišite svoje ime:' to the empty text input field.

Kreirajte svoje odjeljenje:

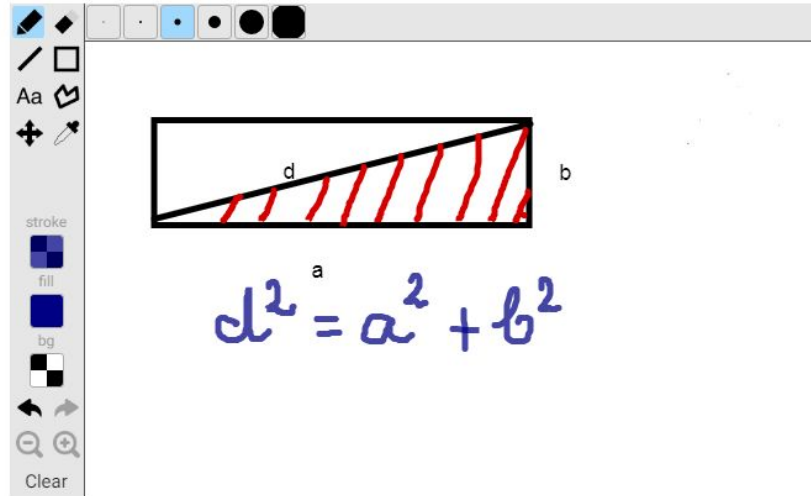
A screenshot of the 'New class' form in the eTwinning interface. The form has a dark green header with 'WHITEBOARD.HI' on the left and 'NEW JOIN' on the right. The main content area is white and contains the title 'New class', a label 'Your name', a text input field containing the name 'Nastavnica', and a note: 'Your name will be displayed for the students joining your whiteboard class.' At the bottom, there are two buttons: 'CANCEL' and '+ CREATE NEW CLASS'. A purple arrow points from the text 'Kreirajte svoje odjeljenje:' to the '+ CREATE NEW CLASS' button.

Mogućnosti, koje imaju nastavnici:

WHITEBOARD.fi

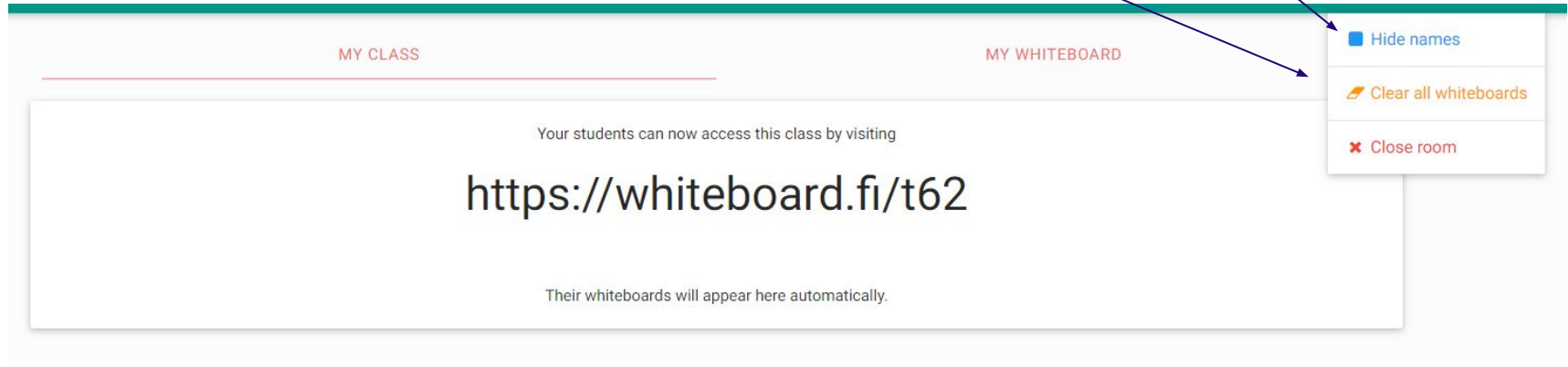
MY CLASS

MY WHITEBOARD

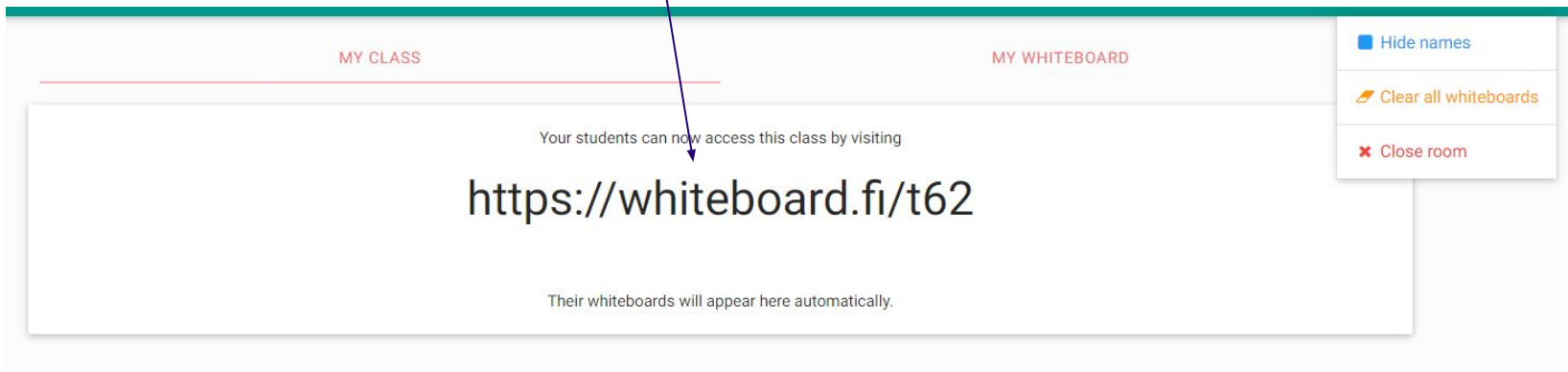


The whiteboard interface displays a diagram of a right-angled triangle. The hypotenuse is labeled 'd', the vertical side is labeled 'b', and the horizontal side is labeled 'a'. The area under the hypotenuse is shaded with red diagonal lines. Below the diagram, the equation $d^2 = a^2 + b^2$ is written in blue. The interface includes a toolbar with drawing tools and a 'Clear' button.

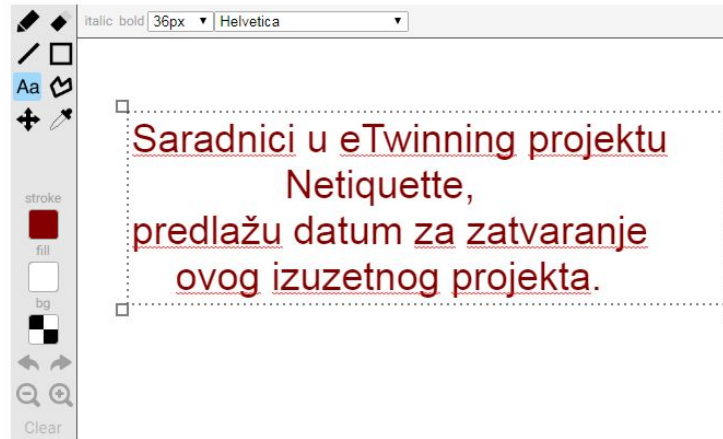
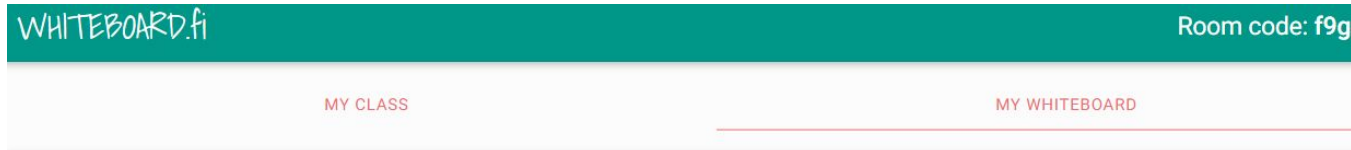
Nastavnici mogu: sakriti imena učenika: obrisati tablu

A screenshot of the eTwinning whiteboard interface. The interface is divided into two main sections: 'MY CLASS' on the left and 'MY WHITEBOARD' on the right. The 'MY CLASS' section contains the text 'Your students can now access this class by visiting' followed by the URL 'https://whiteboard.fi/t62' and 'Their whiteboards will appear here automatically.' The 'MY WHITEBOARD' section contains a dropdown menu with three options: 'Hide names' (with a blue square icon), 'Clear all whiteboards' (with an orange eraser icon), and 'Close room' (with a red 'X' icon). Two blue arrows point from the text 'obrisati tablu' in the title to the 'Clear all whiteboards' and 'Close room' options in the menu.

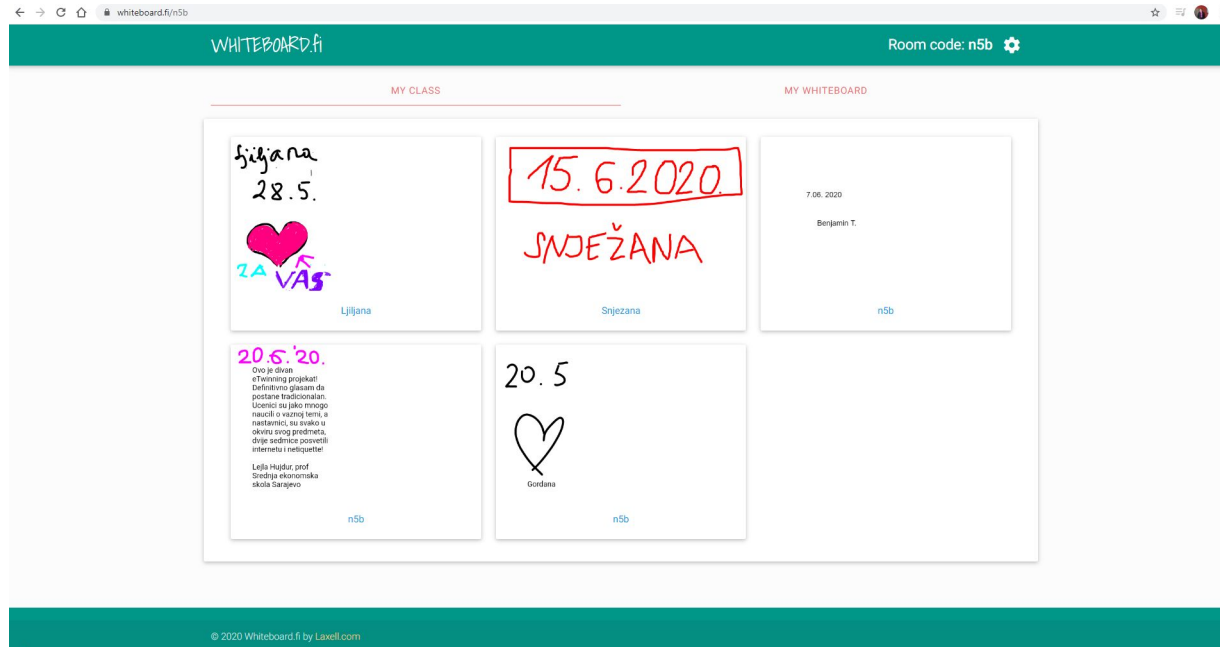
Nastavnik/ica kopira link i podijeli učenicima uz zadatak:

A screenshot of the eTwinning whiteboard interface. At the top, there are two tabs: 'MY CLASS' and 'MY WHITEBOARD'. Below the 'MY CLASS' tab, the text reads 'Your students can now access this class by visiting' followed by the URL 'https://whiteboard.fi/t62'. Below the URL, it says 'Their whiteboards will appear here automatically.' On the right side, there is a menu with three options: 'Hide names', 'Clear all whiteboards', and 'Close room'. A blue arrow points from the text above to the URL.

Primjer: Saradnja učesnika u eTwinning projektu Netiquette



Dogovor saradnica i saradnika u etw projektu Netiquette:



The screenshot shows a web browser window with the URL `whiteboard.fi/n5b`. The page has a green header with the text "WHITEBOARD.fi" and "Room code: n5b". Below the header, there are two tabs: "MY CLASS" and "MY WHITEBOARD". The main content area displays five whiteboard cards:

- Card 1 (Lilijana):** Handwritten text "Lilijana" and "28.5.", a pink heart, and "ZA VAS" with an arrow pointing to the heart.
- Card 2 (Snjezana):** A red box containing "15.6.2020." and "SNJEŽANA" written below it.
- Card 3 (n5b):** Printed text "7.06.2020" and "Benjamin T.".
- Card 4 (n5b):** Handwritten text "20.6.'20.", a paragraph of text about eTwinning projects, and "Lada Mujdzic prof. Srednja ekonomska skola Sarajevo".
- Card 5 (Gordana):** Handwritten text "20.5" and a hand-drawn heart.

At the bottom of the interface, there is a copyright notice: "© 2020 Whiteboard.fi by Luvell.com".

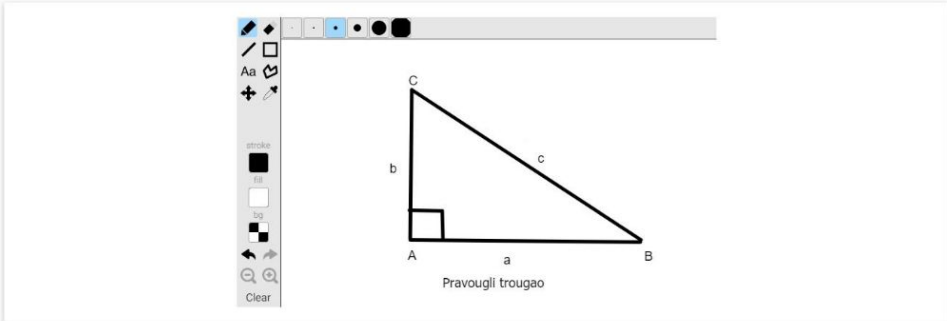
Rad učenika

Whiteboard.fi - Online whiteboard x

whiteboard.fi/152

WHITEBOARD.fi Teacher: Nada Sokolović


MY WHITEBOARD MY TEACHER'S WHITEBOARD



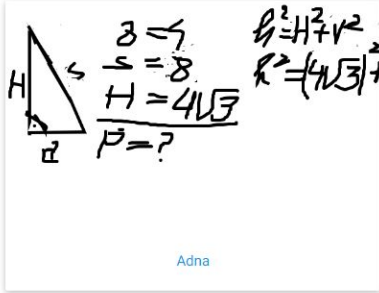
Pravougli trougao

© 2020 Whiteboard.fi by Laxell.com

Ova tabla je jednostavna i možemo je primijeniti, ukoliko učenici trebaju riješiti kraći zadatak ili napisati kraći tekst, nešto nacrtati,...

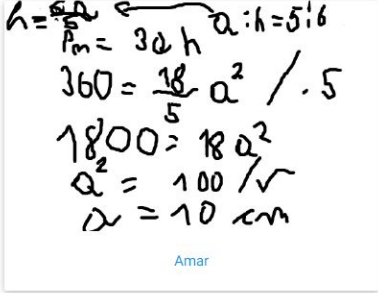
WHITEBOARD.FI
Room code: t62 

MY CLASS



Adna

MY WHITEBOARD




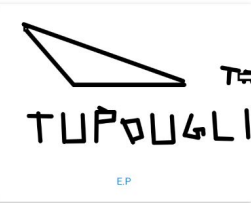
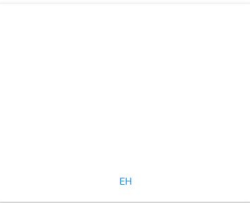
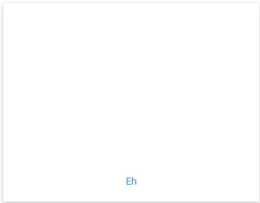
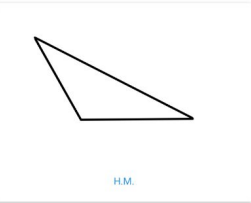
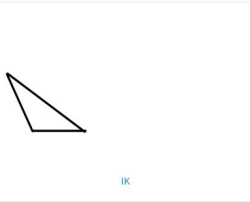
Amar

Kako nastavnik/ica vidi table učenika?

Primjer:
Nacrtaј tupougli trougao.

WHITEBOARD.H Room code: h66

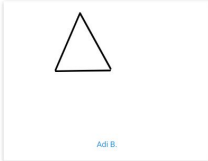
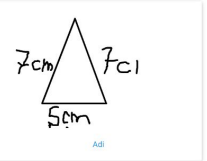
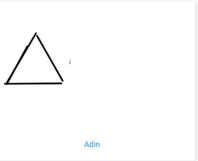

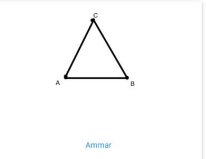
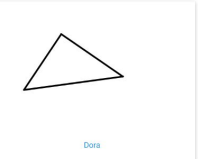
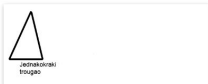

MY CLASS MY WHITEBOARD

		
AB	EP	EH
		
EH	H.M.	IK

Primjer:
Nacrtaј jednakokraki trougao.

WHITEBOARD.H Room code: y3t

MY CLASS MY WHITEBOARD

		
Adi B.	Adi	Adin
		
Amela Osmanovic	Ammar	Dora
		
jednakokraki trougao		jednakokraki trougao

Primjer iz prakse

Zadatak: Napiši formulu za izračunavanje površine baze pravilne šestostrane piramide.

WHITEBOARD.fi Room code: p44

MY CLASS MY WHITEBOARD

italic bold 18px Helvetica

Napiši formulu za površinu baze pravilne šestostrane piramide.

stroke fill bg

Clear

WHITEBOARD.fi Room code: p44


MY CLASS MY WHITEBOARD

$P_B = \frac{3a^2 \sqrt{3}}{2}$	$P = \frac{3a^2}{2} (2\sqrt{3} + 2h)$	
$P_B = \frac{3a^2 \sqrt{3}}{2}$		$P = \frac{3a^2}{2} (2\sqrt{3} + 2h)$
$P_B =$	$P = \frac{3a^2}{2} (2\sqrt{3} + 2h)$	$P = \frac{3a^2}{2} (2\sqrt{3} + 2h)$

Nastavnici mogu brisati na tabli učenika, ali ne mogu dopisivati.

WHITEBOARD.HI Room code: t62

Adna

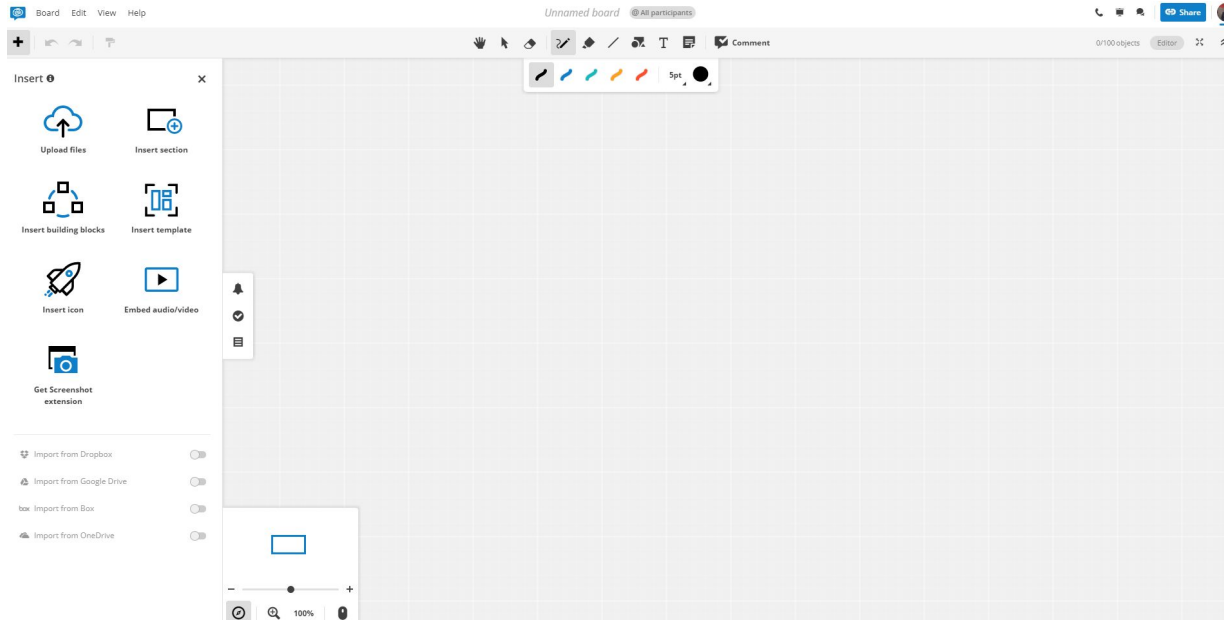


$$\begin{aligned}
 a &= 4 \\
 b &= 4\sqrt{3} \\
 c &= 8 \\
 h &= 4\sqrt{3}
 \end{aligned}$$

$$\begin{aligned}
 R^2 &= R^2 + r^2 \\
 R^2 &= (4\sqrt{3})^2 + \left(\frac{4\sqrt{3}}{2}\right)^2 \\
 R^2 &= 16 \times 3 + (4\sqrt{3})^2 \\
 R^2 &= 48 + (2\sqrt{3})^2 \\
 R^2 &= 48 + 4 \times 3 \\
 R^2 &= 48 + 4 \times 3 \\
 R^2 &= 60 \\
 R &= \sqrt{60} = 7,74
 \end{aligned}$$

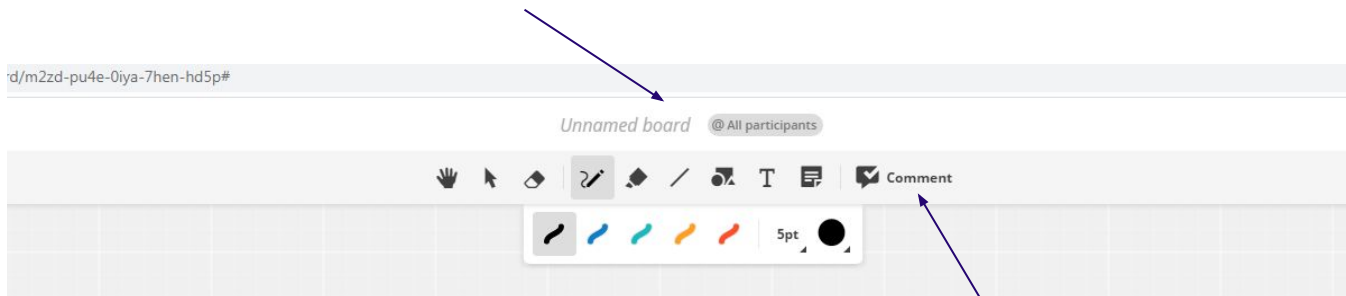
KICK ERASE CLOSE

<https://app.conceptboard.com/>



Na ovu tablu
možemo dodati:
-grafikone,
-video,
-audio sadržaj,...

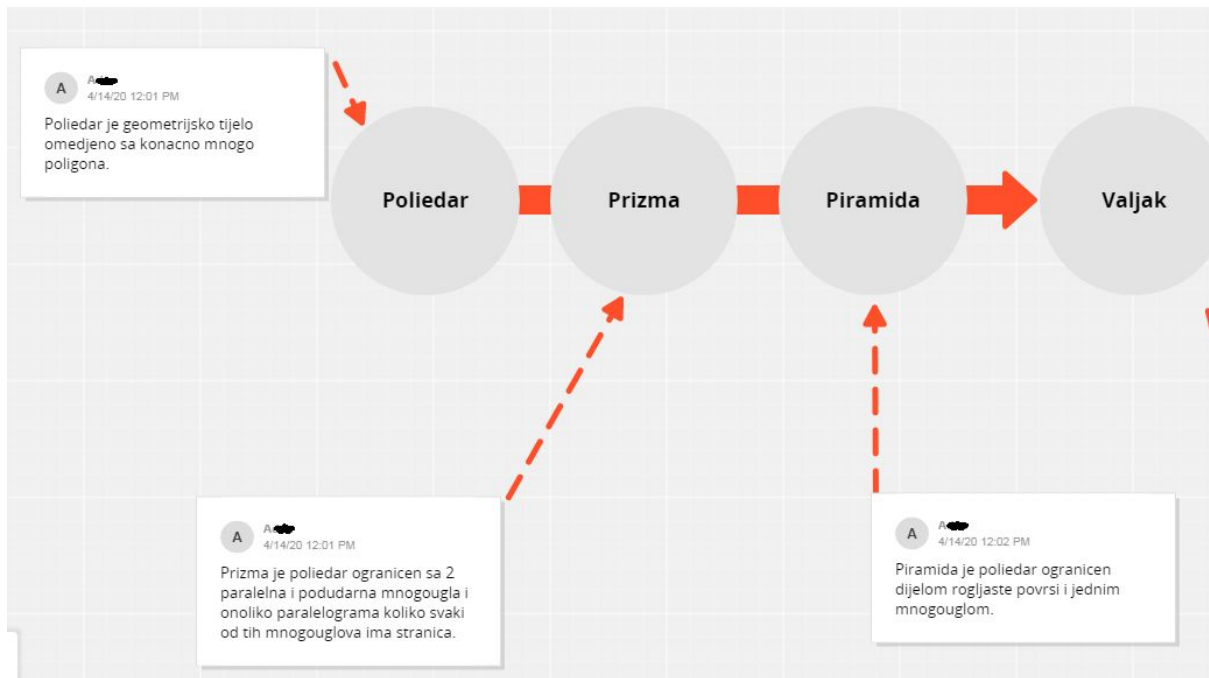
Traka sa alatima za pisanje

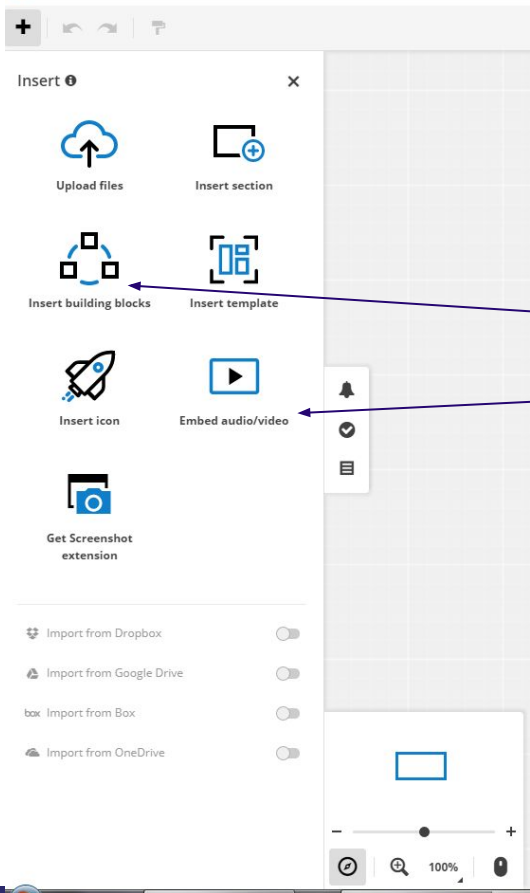


Mogućnost pisanja komentara
(odgovora) na bilo kom dijelu table.

Primjer:

Zadatak: Pored svakog pojma u grafikonu, napiši njegovu definiciju.





Na ovoj tabli, pored fotografija,
možemo dodati:
Grafikon
audio/video
Ikone

-
-
-

Kako dodati grafikon?

1/2 Grid 2 Lines

2x2 Grid Arrow Process

Basic Cycle Basic Table

Basic Timeline Block Cycle

Block Process Chevron List

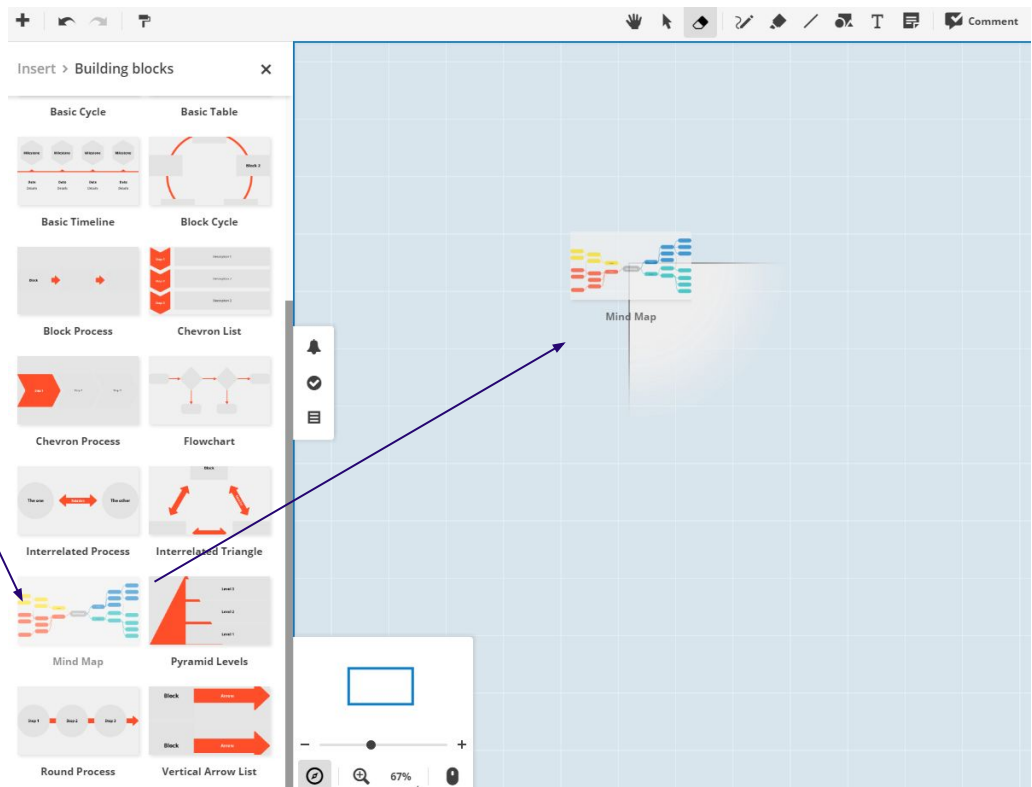
Chevron Process Flowchart

Interrelated Process Interrelated Triangle

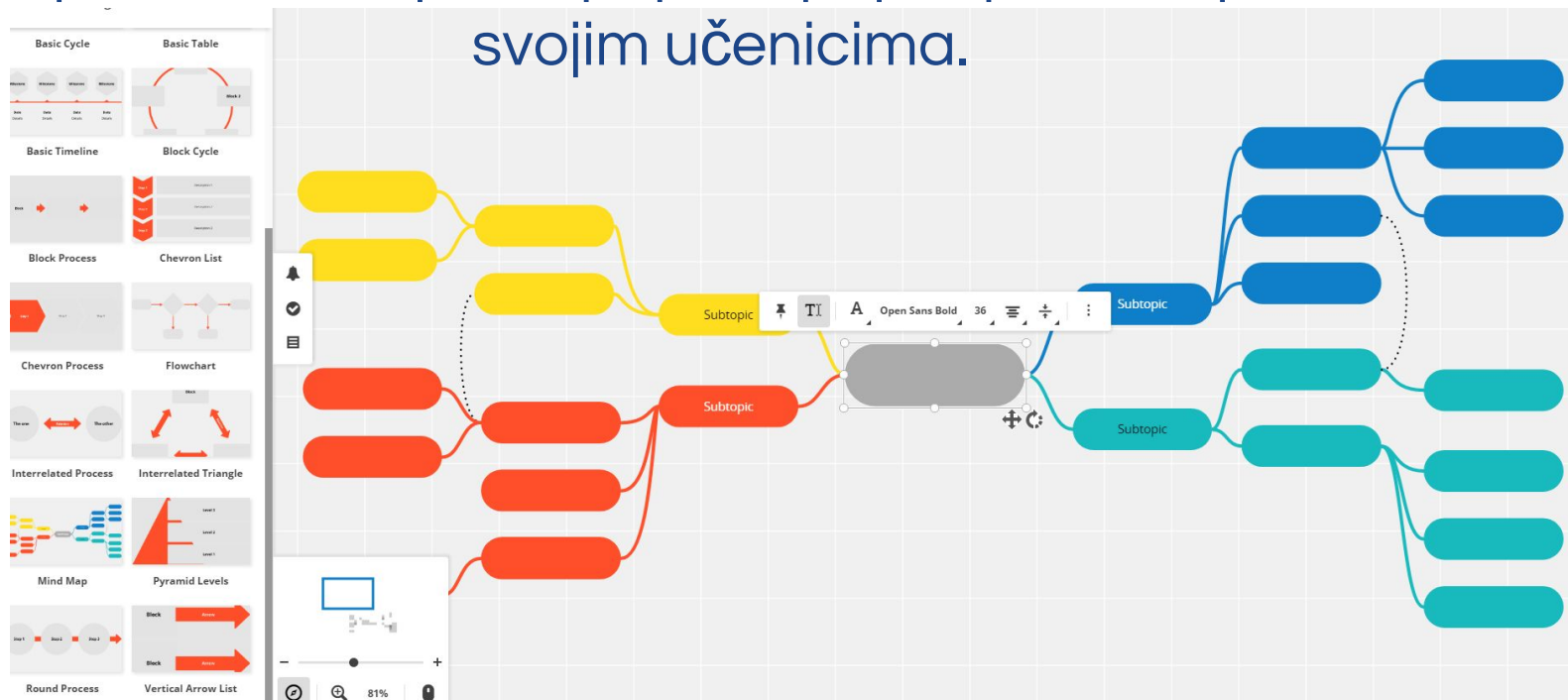
Mind Map Pyramid Levels

Round Process Vertical Arrow List

Da bi odabrali mapu uma, kliknemo na mapu uma na lijevoj strani i pomoću miša “prenesemo” na tablu.

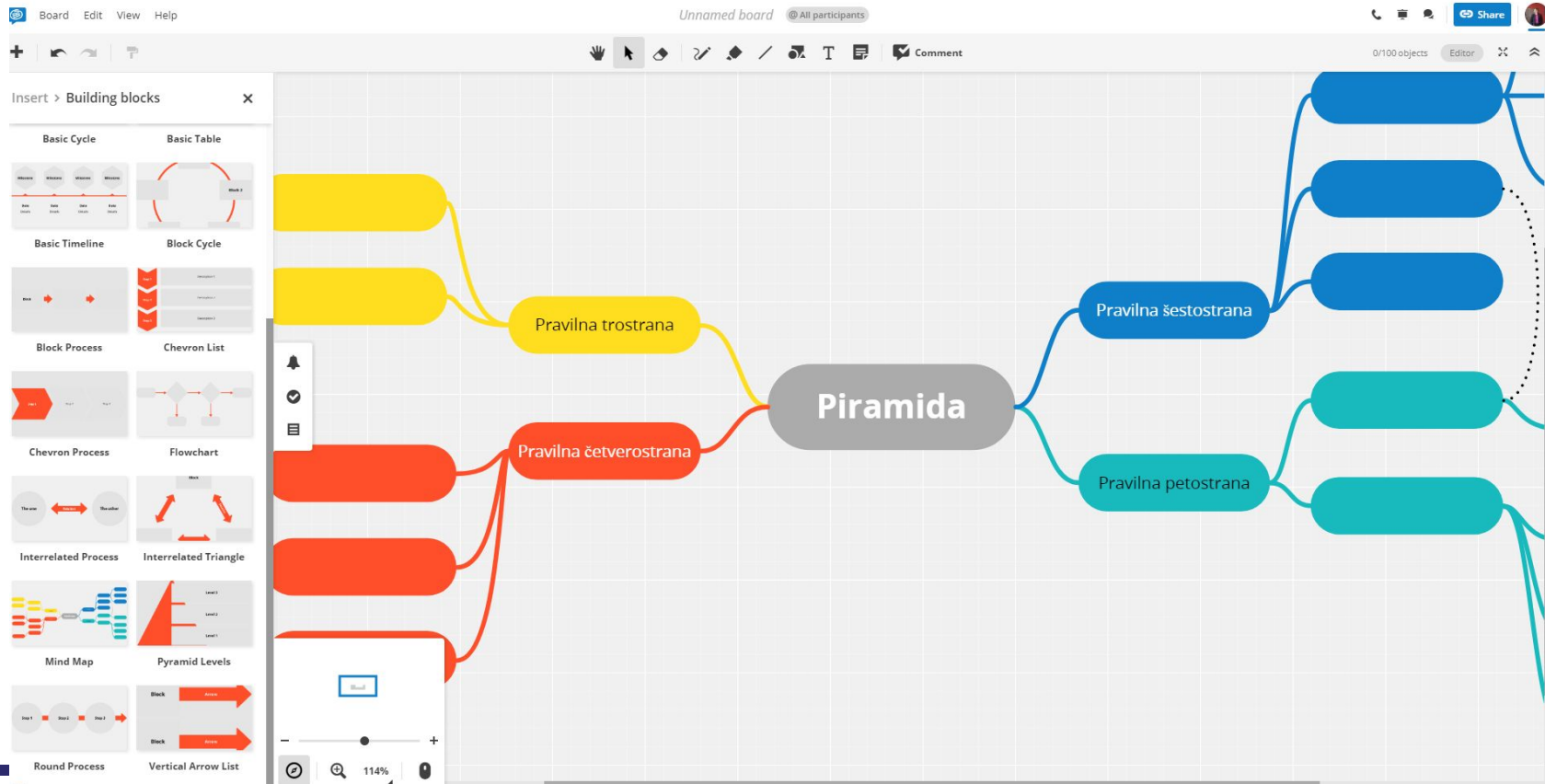


Kada pustimo lijevu tipku miša, dobijemo mapu uma, u koju možemo upisati pojam i popunjavati zajedno sa svojim učenicima.



The screenshot displays a mind mapping application interface. On the left, there is a grid of 20 diagram templates, including 'Basic Cycle', 'Basic Table', 'Block Cycle', 'Chevron List', 'Flowchart', 'Interrelated Triangle', 'Pyramid Levels', and 'Vertical Arrow List'. The main workspace shows a mind map with a central grey node labeled 'Subtopic'. Three main branches extend from the center: a yellow branch with three sub-nodes, an orange branch with four sub-nodes, and a teal branch with three sub-nodes. A text box is open over the central node, showing a rich text editor with options for bold, font size, and alignment. The interface also includes a zoom slider at the bottom left and a search icon.

Primjer: Piramida



Board Edit View Help

Unnamed board @ All participants

Share

0/100 objects Editor

Insert > Building blocks

Basic Cycle Basic Table

Basic Timeline Block Cycle

Block Process Chevron List

Chevron Process Flowchart

Interrelated Process Interrelated Triangle

Mind Map Pyramid Levels

Round Process Vertical Arrow List

Pravilna trostrana

Pravilna četverostrana

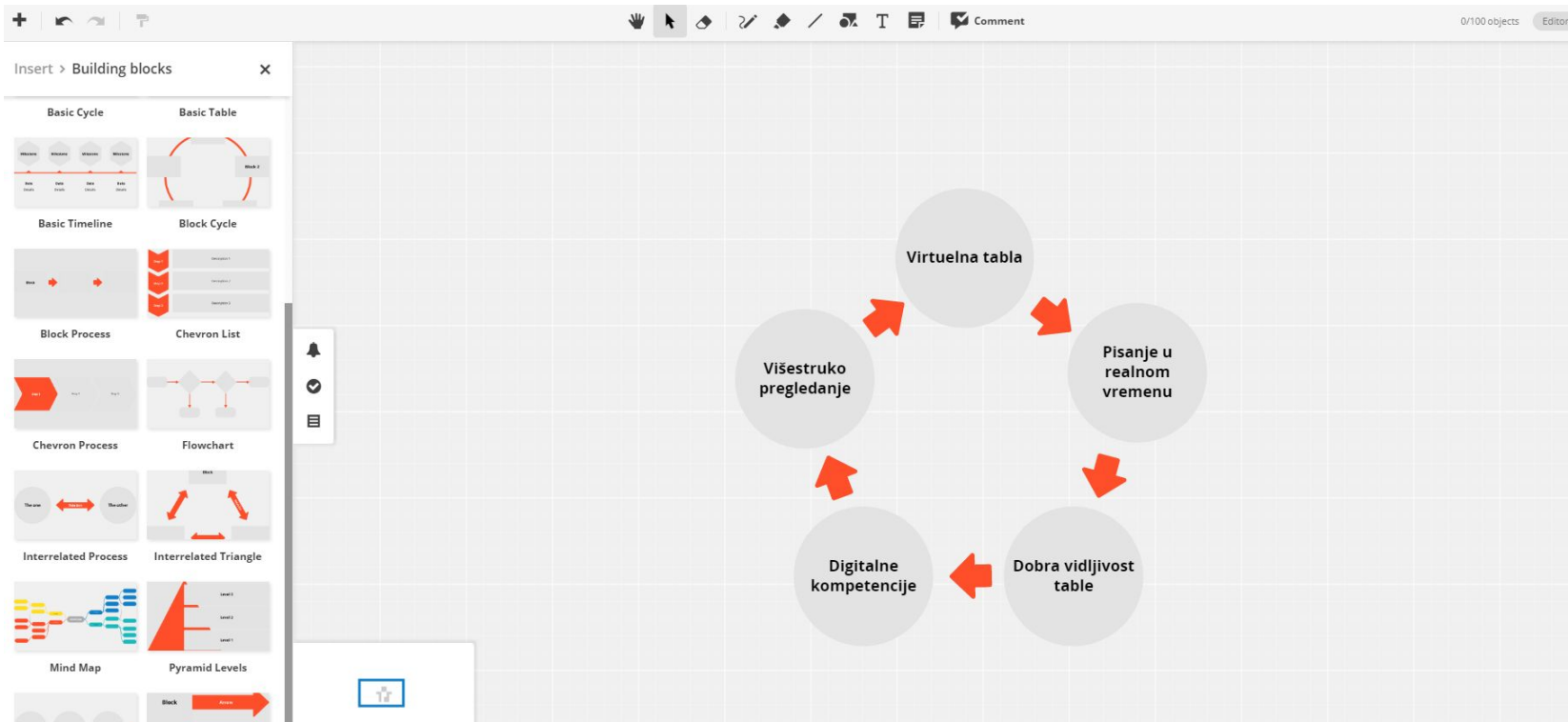
Piramida

Pravilna šestostrana

Pravilna petostrana

114%

Primjer kružnog dijagrama:



The screenshot shows a diagramming tool interface with a grid background. On the left, there is an 'Insert > Building blocks' menu with various diagram templates like Basic Cycle, Basic Table, Basic Timeline, Block Cycle, Block Process, Chevron List, Chevron Process, Flowchart, Interrelated Process, Interrelated Triangle, Mind Map, and Pyramid Levels. The main workspace contains a circular flow diagram with five grey circular nodes connected by red arrows in a clockwise direction. The nodes are labeled as follows:

- Top: Virtuelna tabla
- Right: Pisanje u realnom vremenu
- Bottom Right: Dobra vidljivost table
- Bottom Left: Digitalne kompetencije
- Left: Višestruko pregledanje

The diagram is set within a tool interface that includes a top toolbar with icons for zooming, erasing, and commenting, and a right-side status bar indicating '0/100 objects' and an 'Editor' button.

Basic Cycle

Basic Table

Basic Timeline

Block Cycle

Block Process

Chevron List

Chevron Process

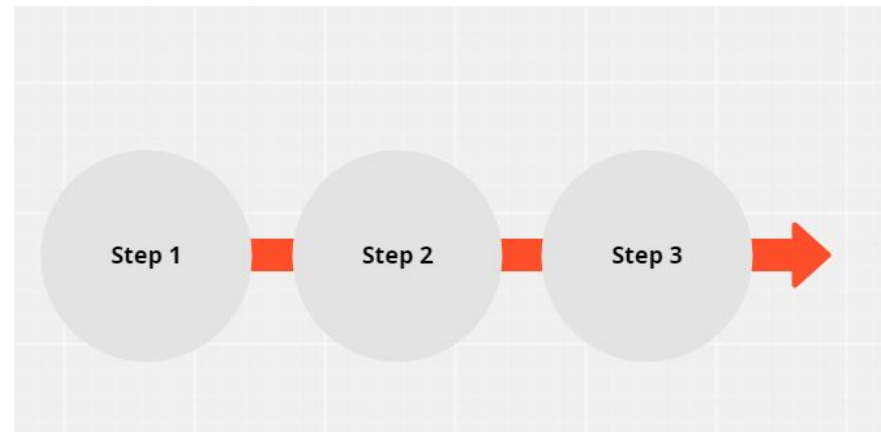
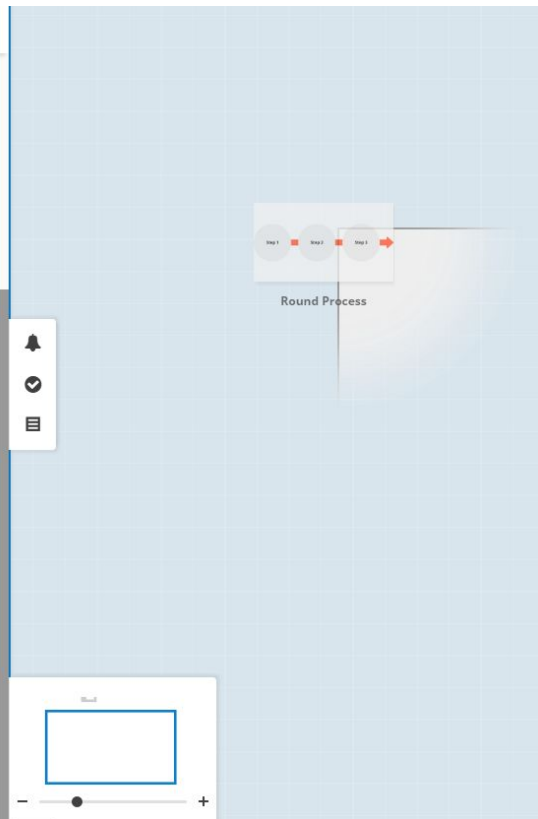
Flowchart

Interrelated Process

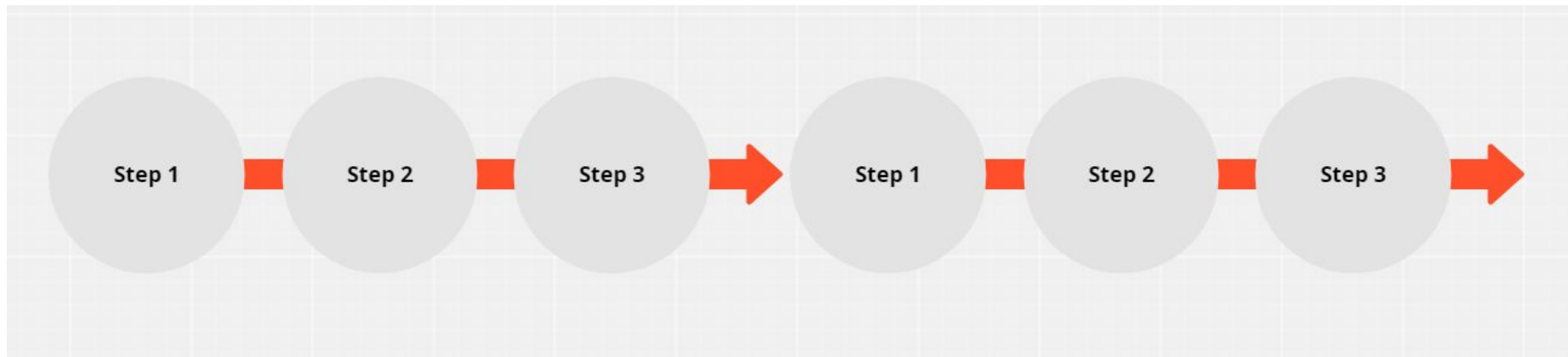
Interrelated Triangle

Mind Map

Pyramid Levels



Grafikone možemo nadovezivati



Sada želimo dodati video...

Insert ⓘ



Upload files



Insert section



Insert building blocks



Insert template



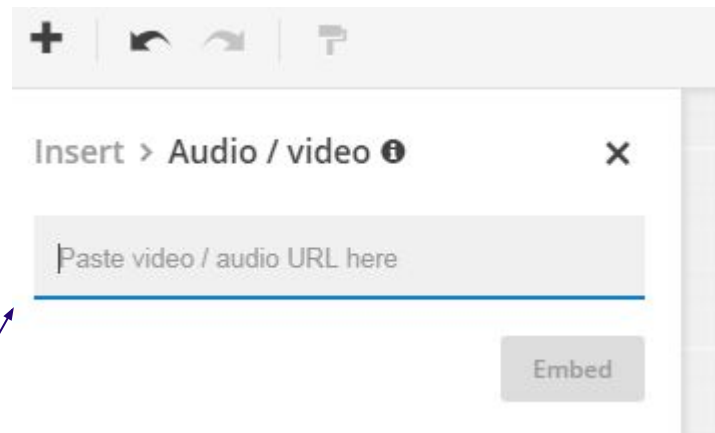
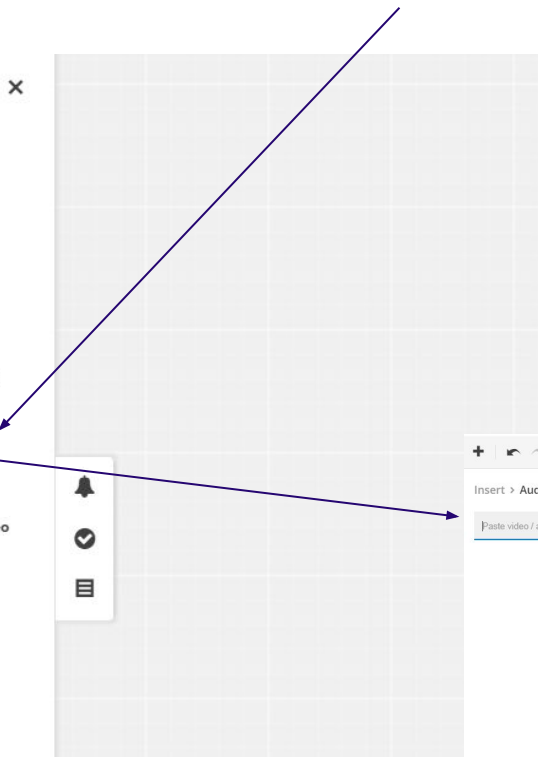
Insert icon



Embed audio/video



Get Screenshot extension



Sada želimo dodati video...



Insert > Audio / video ⓘ



<https://vimeo.com/359977586>

Embed

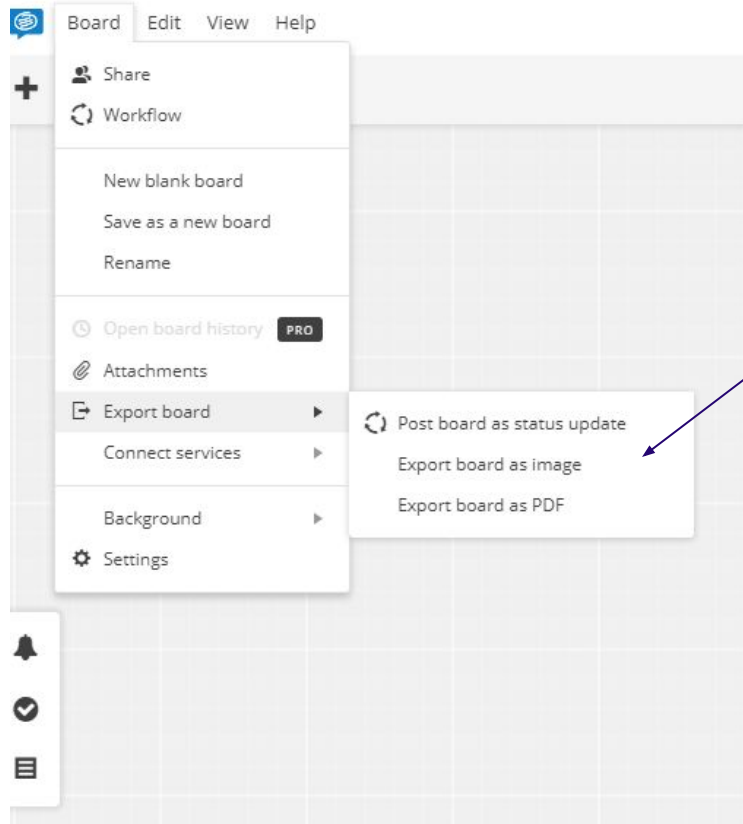
Unnamed board @ All participants

1/100 objects Editor



<https://app.conceptboard.com/board/3722-p9qs-x4g1-18cn-90n6>





Mogućnosti

app.conceptboard.com/board/3722-p9gs-x4g1-18cn-90n6#

Board Edit View Help

Primjer video @ All participants

- Share
- Workflow
 - New blank board
 - Save as a new board
 - Rename
- Open board history **PRO**
- Attachments
- Export board
 - Post board as status update
 - Export board as image
 - Export board as PDF
- Connect services
- Background
- Settings

ASTRO-STEM

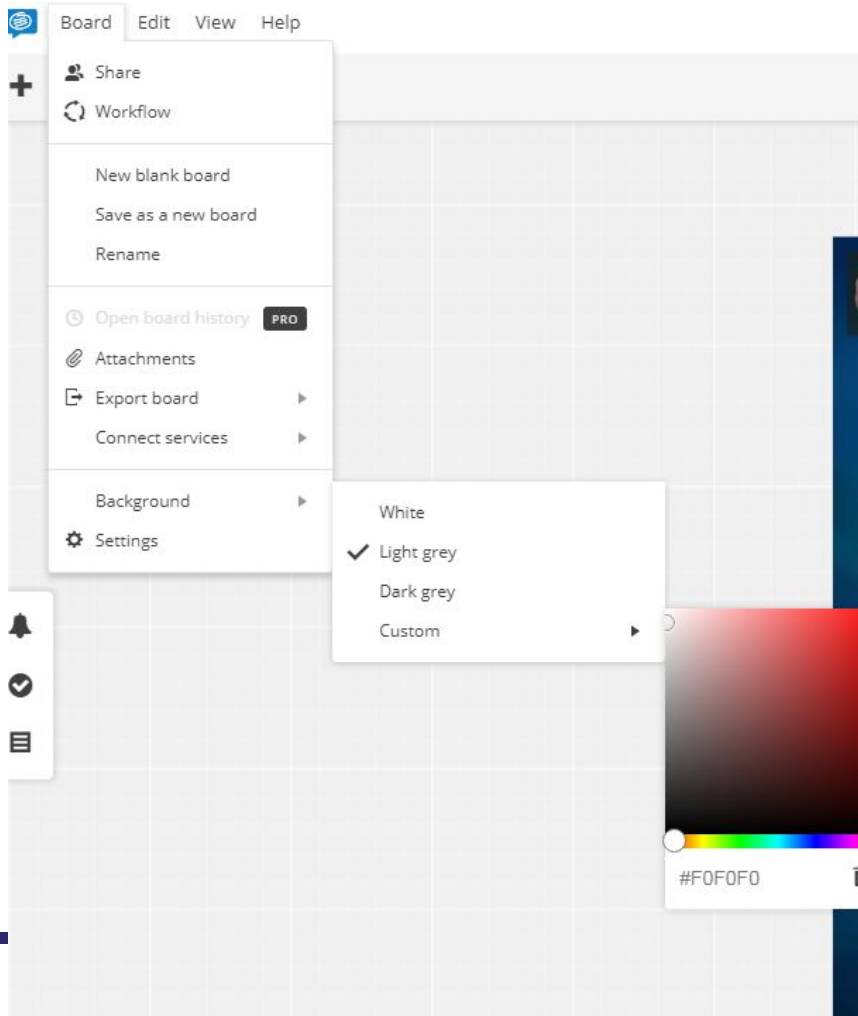
From Nada Sokolovic

ETWINNING PROJECT

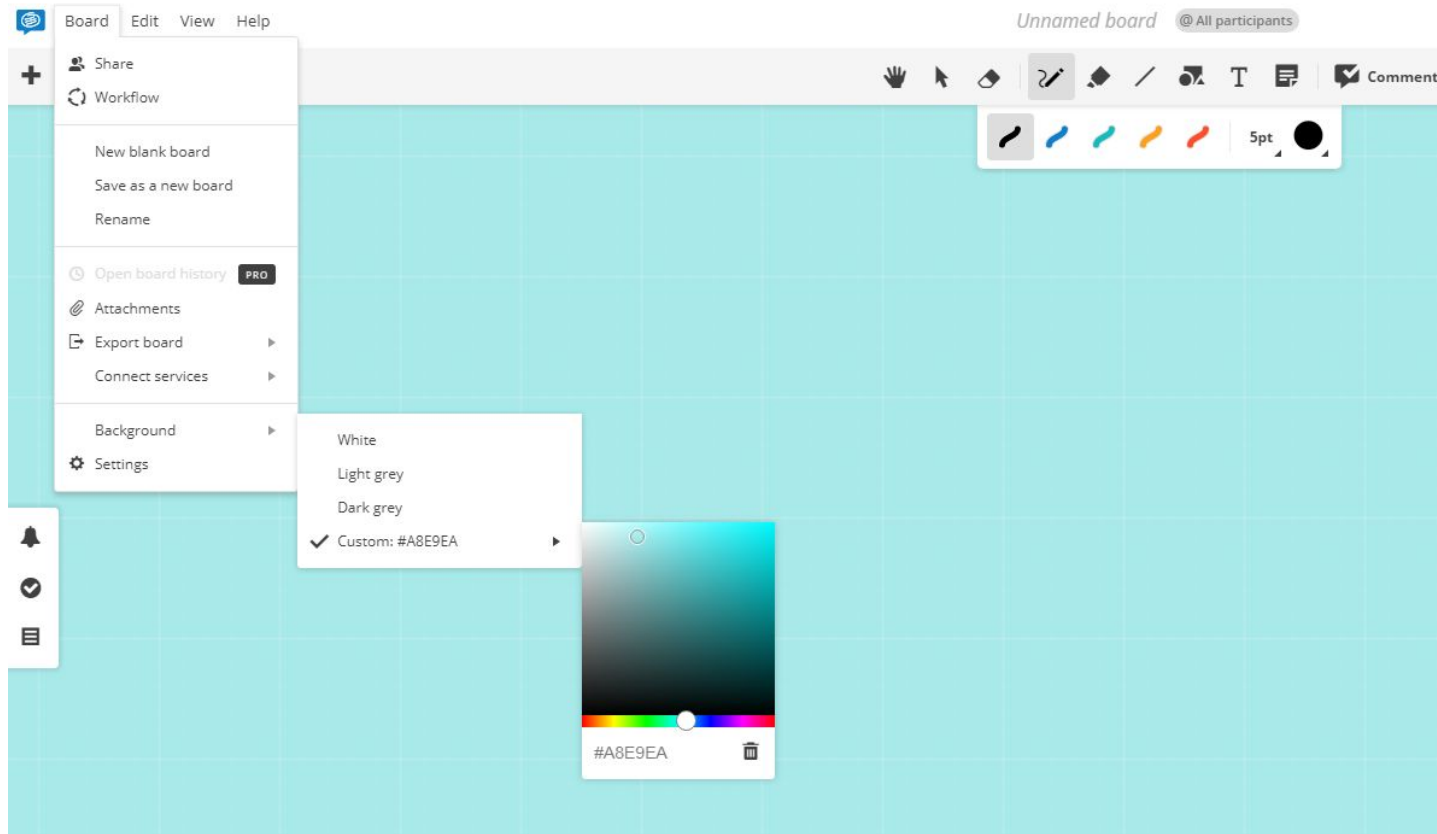
FREE VIDEO CREATED ON POSTERMYWALL.COM

Osman Nakaš, Sarajevo Bosnia and Herzegovina

vimeo



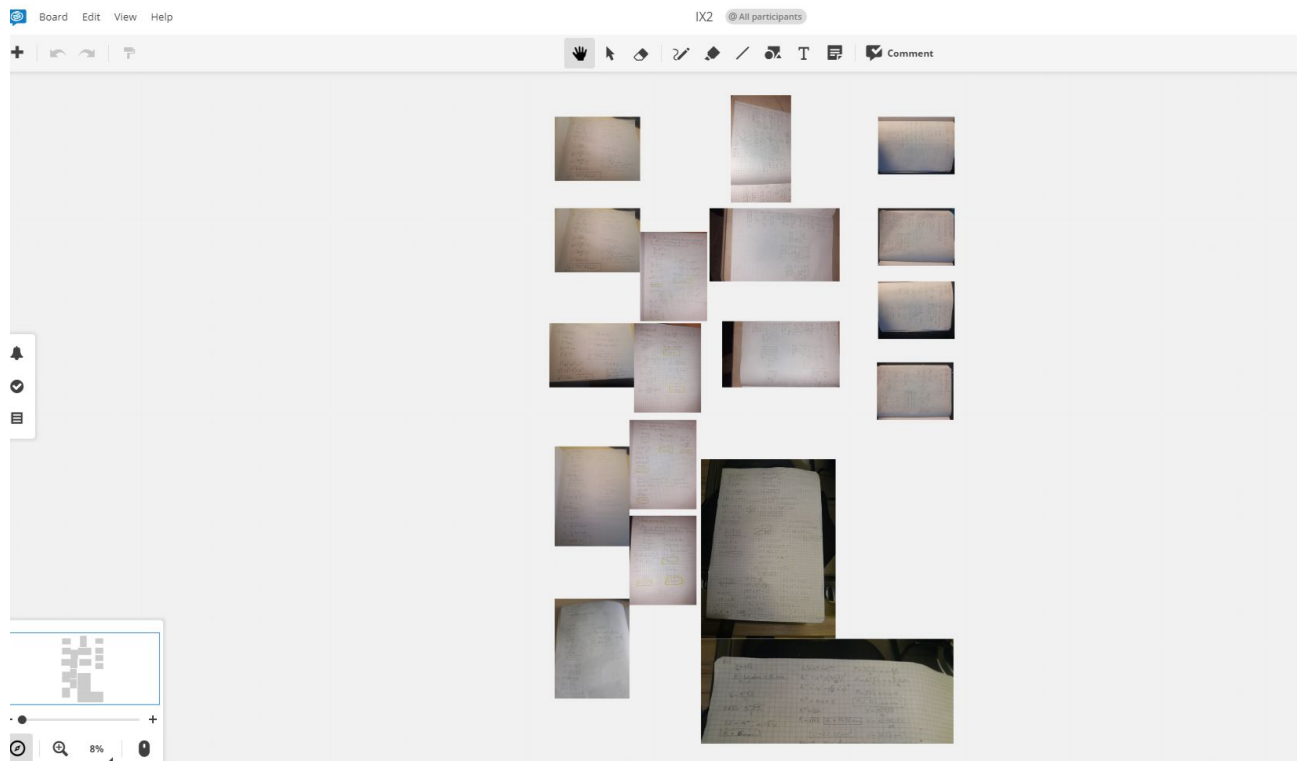
Možemo odabrati
boju table.

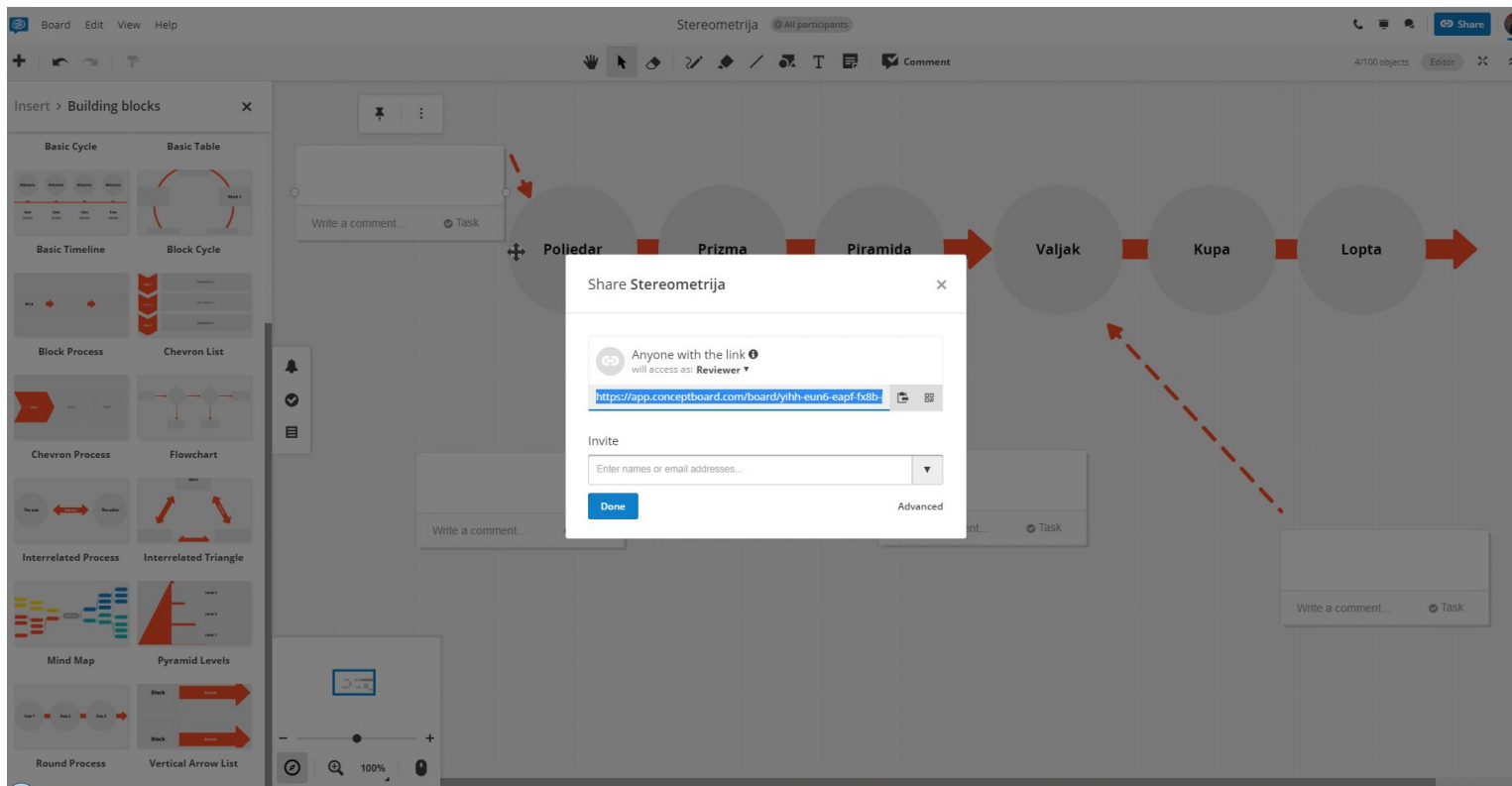


<https://app.conceptboard.com/board/ys85-1tdy-h0nh-ousd-tbdn>



Primjer: Domaće zadaće





Vještina 16.4.2020. X



<https://app.conceptboard.com/board/y1h-eun6-eapf-fx8b>

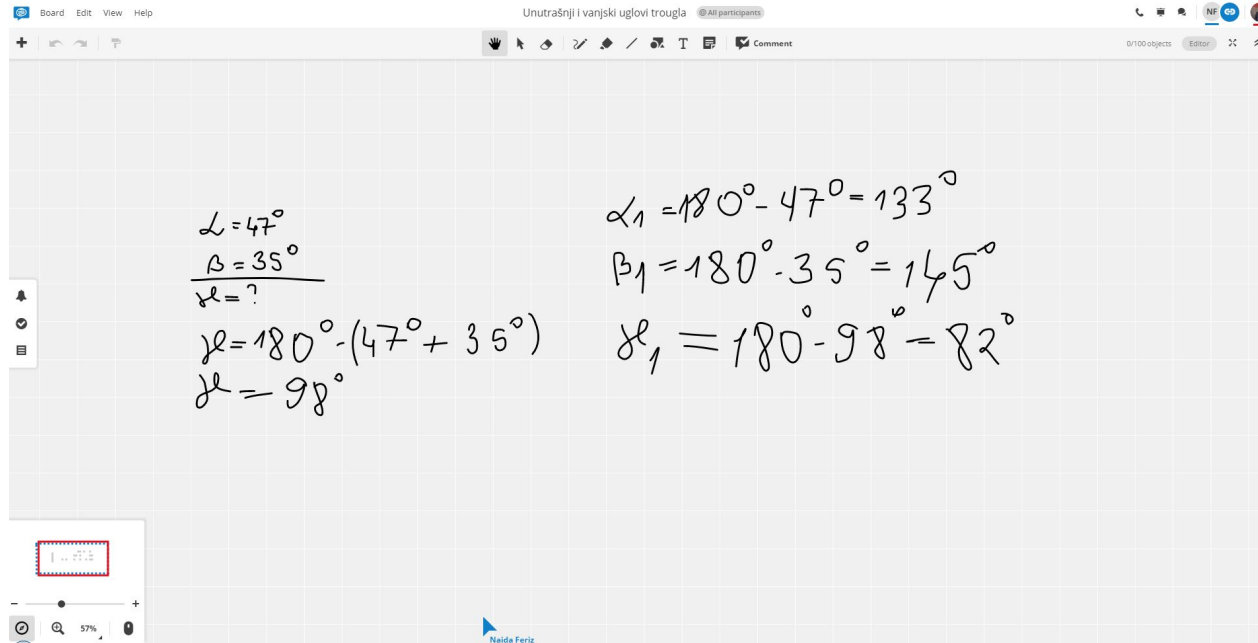
Napišite tri riječi, koje najbolje opisuju virtuelnu tablu.

[https://app.conceptboard.com/
board/xymb-a71s-fu1s-qu1f-ga
92](https://app.conceptboard.com/board/xymb-a71s-fu1s-qu1f-ga92)



Provjera znanja učenika (primjer):

<https://app.conceptboard.com/board/yihh-eun6-eapf-fx8b-p23z#>



Board Edit View Help

Unutrašnji i vanjski uglovi trougla @ All participants

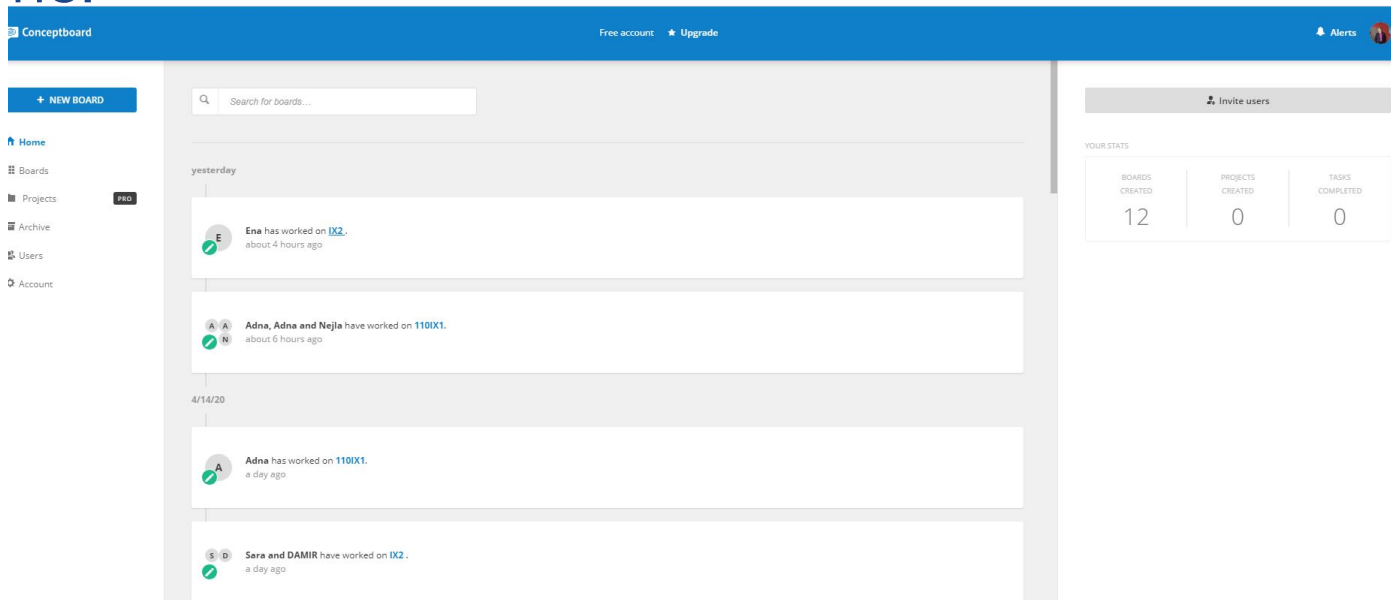
0/100 objects Editor

$$\begin{aligned} \alpha &= 47^\circ \\ \beta &= 35^\circ \\ \gamma &= ? \\ \gamma &= 180^\circ - (47^\circ + 35^\circ) \\ \gamma &= 98^\circ \end{aligned}$$

$$\begin{aligned} \alpha_1 &= 180^\circ - 47^\circ = 133^\circ \\ \beta_1 &= 180^\circ - 35^\circ = 145^\circ \\ \gamma_1 &= 180^\circ - 98^\circ = 82^\circ \end{aligned}$$

Neida Feriz

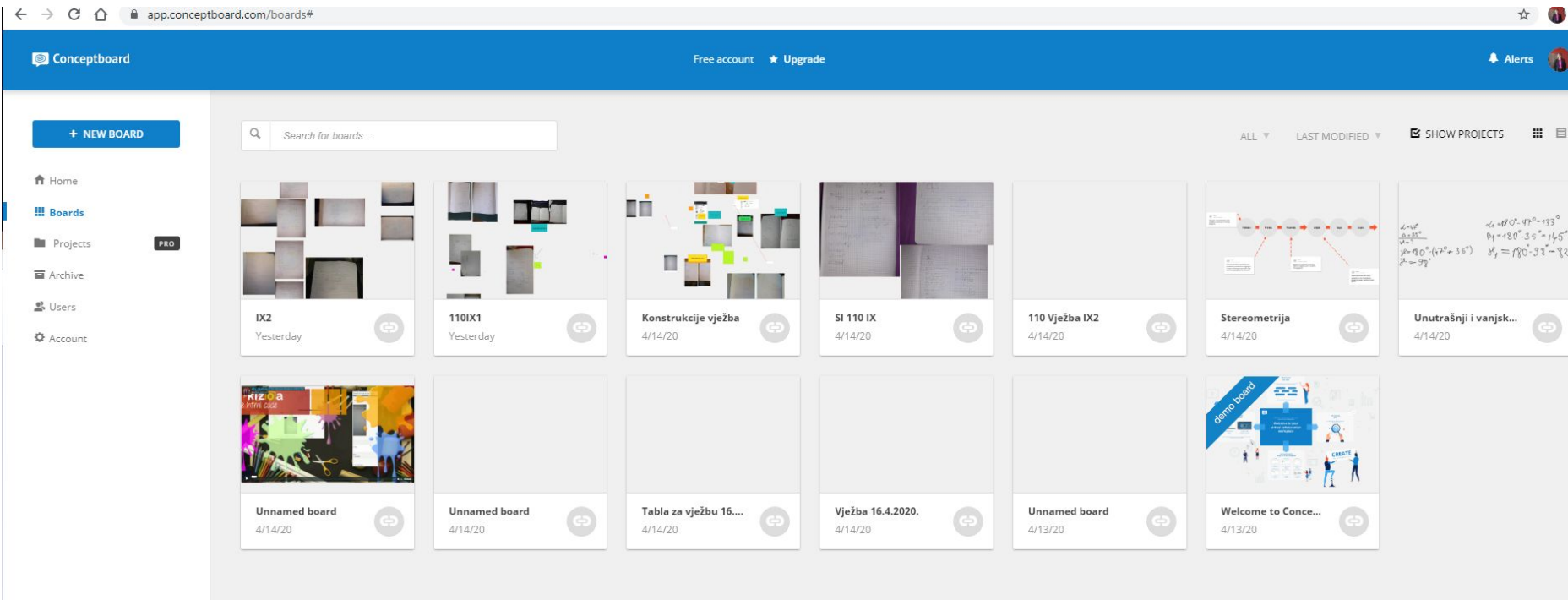
Nastavnik/ica ima pregled rada učenika na tabli, vrijeme:



The screenshot displays the eTwinning Conceptboard interface. At the top, a blue header bar contains the text "Conceptboard", "Free account", "Upgrade", and "Alerts". Below the header, a search bar is visible with the placeholder text "Search for boards...". The main content area is divided into sections by date. The "yesterday" section contains three items: "Ena has worked on IX2. about 4 hours ago", "Adna, Adna and Neja have worked on 110IX1. about 6 hours ago", and "Adna has worked on 110IX1. a day ago". The "4/14/20" section contains one item: "Sara and DAMIR have worked on IX2. a day ago". On the right side, there is a "YOUR STATS" section with a table showing the number of boards created, projects created, and tasks completed.

BOARDS CREATED	PROJECTS CREATED	TASKS COMPLETED
12	0	0

Nastavnik/ica ima pregled više tabli u isto vrijeme:

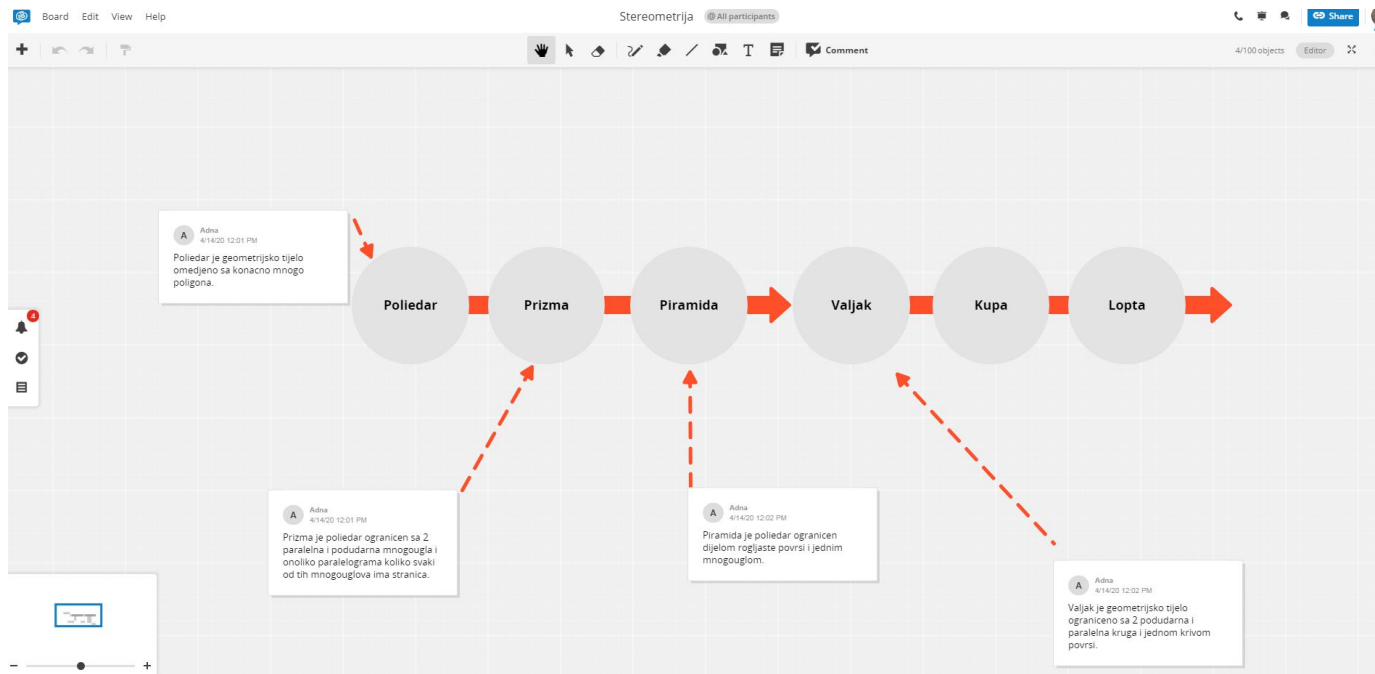


The screenshot shows the Conceptboard web application interface. At the top, there is a navigation bar with the Conceptboard logo, account status (Free account), and an upgrade option. A search bar is located below the navigation bar. The main content area displays a grid of boards, each with a thumbnail image, a title, and a date. The boards are arranged in two rows. The first row contains seven boards, and the second row contains six boards. The boards are as follows:

- IX2**: Yesterday
- 110IX1**: Yesterday
- Konstrukcije vježba**: 4/14/20
- SI 110 IX**: 4/14/20
- 110 Vježba IX2**: 4/14/20
- Stereometrija**: 4/14/20
- Unutrašnji i vanjsk...**: 4/14/20
- Unnamed board**: 4/14/20
- Unnamed board**: 4/14/20
- Tabla za vježbu 16...**: 4/14/20
- Vježba 16.4.2020.**: 4/14/20
- Unnamed board**: 4/13/20
- Welcome to Conce...**: 4/13/20

The interface also includes a sidebar on the left with navigation options: Home, Boards, Projects, Archive, Users, and Account. A 'NEW BOARD' button is located at the top left of the main content area. The top right of the main content area has filters for 'ALL' and 'LAST MODIFIED', and a 'SHOW PROJECTS' button.

Ova tabla je veoma zanimljiva i pruža brojne mogućnosti za provjeru znanja učenika.



Zadatak za vas:

<https://app.conceptboard.com/board/67s6-41a7-ttah-escn-t3rk>

Preko mobitela
prijavite se kao
gost,
kliknite na “+” ...



Vježba 16.4.2020.

×



<https://app.conceptboard.com/board/67s6-41a7-ttah-escn-t3rk>

Učitajte jednu
svoju fotografiju.

Hvala za pažnju!

Link za evaluaciju:
<https://surveyhero.com/c/5b09053b>



<https://aposo.gov.ba/bs/erasmus/etwinning/>



etwinningbih@aposo.gov.ba



<https://hr-hr.facebook.com/eTwinningbih/>

KONTAKT



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