tourd + 1 = with sirra + cosx = 1

2. kontrolna naloga 2. A, 8. 12. 2021

PRIS KEMICHIM

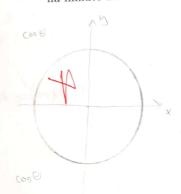
Ime in priimek: Liva Jurković

SYINCHIKOM!!! &

dosežene točke 23	možne točke	odstotki	ocena
	35	66	3

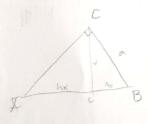
## ČAS PISANJA: 45 minut

1. Naj boxkot, za katerega velja $0^{\circ} < x < 360^{\circ}.$  V enotskem krogu predstavi in nato izračunaj velikosti vseh kotov x, za katere velja  $\cos x = -0, 8$ . Velikosti kotov zapiši na minuto natančno.



$$\cos(180^{\circ}-36^{\circ}52^{\circ}) = -0.18$$
 $\cos(180^{\circ}-36^{\circ}52^{\circ}) = -0.18$ 
 $\cos(180^{\circ}+36^{\circ}52^{\circ}) = -0.18$ 
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 $\cos(180^{\circ}+36^{\circ}52^{\circ}) = -0.18$ 

2. Dan je pravokotni trikotnik ABC s hipotenuzo AB. Izračunaj natančni dolžini [6t] 5t hipotenuze c in katete a, če je v=24 cm in  $a_1:b_1=1:4$ .



anibrenih

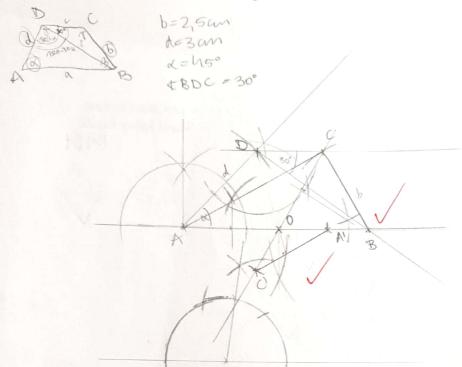
V2 = 1x. 4x 516= 4x2 XZ= Muh X= Man an= 12cm, by= 48cm

> C= an+bn= 60am 2= 0,0 a2 = 12cm. 60cm = 720cm

a=26,83an To je približek!

62 = b1C

3. Konstruiraj trapez ABCD z ostrima kotoma  $\alpha$  in  $\beta$  s podatki: b=2,5 cm, d=3 cm,  $\alpha=45^\circ$  in  $\angle BDC=30^\circ$ . Nato konstruiraj daljico A'C' (brez zapisa poteka konstrukcije), ki se s središčnim raztegom s središčem v razpolovišču osnovnice a trapeza in koeficientom raztega k=-2 preslika v diagonalo trapeza AC.



Dx -> A

D l(A, r=3cm) -> D

D lond. \*ADB

-> 150°-x-30°

P(F, a) -> B

Cla, l(B, r=25cm)

-> C

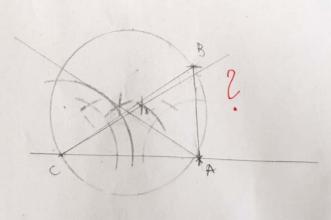
Tropez ABCD

4. Konstruiraj trikotnik ABC s podatki: a-c=2 cm,  $\beta=60^\circ$  in b=4 cm. Zapis poteka konstrukcije ni obvezen. [5t]

b=han

1 ABC

a-c=2cm

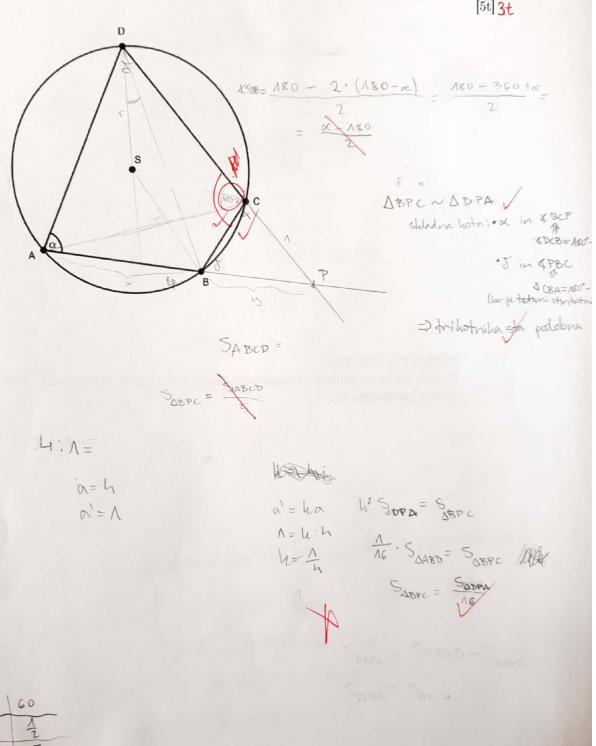


c 2 1 8

- 5. Na sliki je štirikotnik ABCD.
  - a) S kotom  $\alpha$  izrazi kot  $\angle SDB$ .

[3t]0t

b) Nosilki stranic CD in AB se sekata v točki P. Zapiši podobna trikotnika in utemelji, zakaj sta si podobna (lahko s krajšimi zapisi ob sliki). Izrazi ploščino S trikotnika BPC s ploščino  $S_{ABCD}$  štirikotnika ABCD, če je |PA|=4 in |PC|=1.



30 1	45	60
- <del>1</del> 3	22	之
7	12	NE 2
季	1	13
13	1	13/3

[3t]

tan=
$$\frac{\sin}{\cos}$$
  $\cot x + (\Lambda - 2(\Lambda + \tan^2 x)^{-\Lambda}) \cdot \sin^{-\Lambda} x \cdot \cos x =$ 
 $\cot x + (\Lambda - 2(\Lambda + \tan^2 x)^{-\Lambda}) \cdot \sin^{-\Lambda} x \cdot \cos x =$ 
 $\cot x + (\Lambda - 2\cos^2 x) \cdot \frac{\Lambda}{\sin x} \cdot \cos x =$ 
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 $\cot x + (\Lambda - 2\cos^2 x) \cdot \frac{\Lambda}{\sin x} \cdot \cos x =$ 
 $\cot$ 

## DODATNA NALOGA:

Dokaži, da so razpolovišča stranic poljubnega konveksnega štirikotnika ABCDoglišča paralelograma.

