



**Republički seminar 2012.**

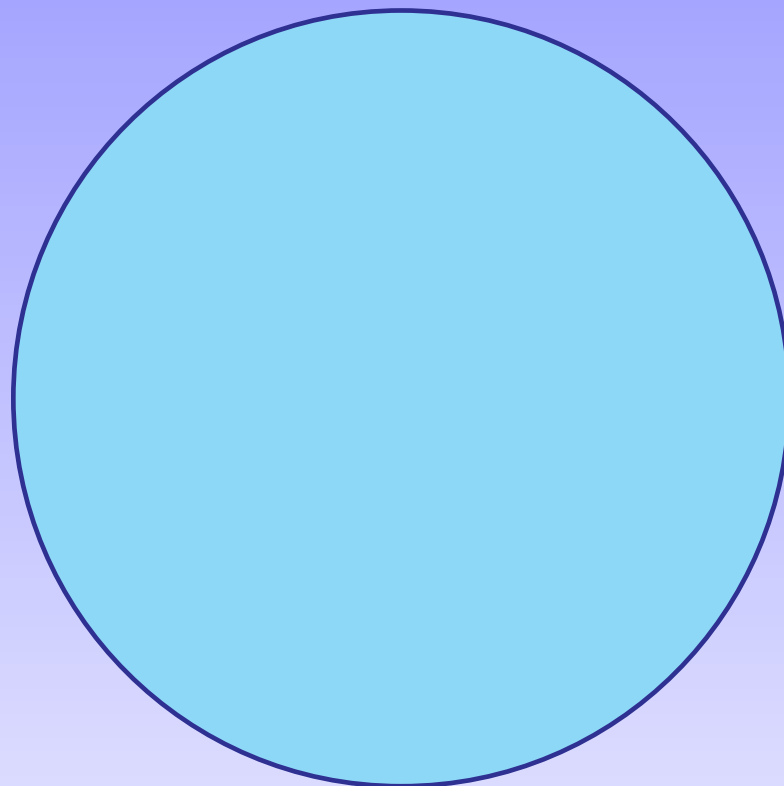
**Problemska nastava  
realizovana uz pomoć računara**

dr Marija Stanić, PMF Kragujevac

mr Slađana Dimitrijević, PMF Kragujevac

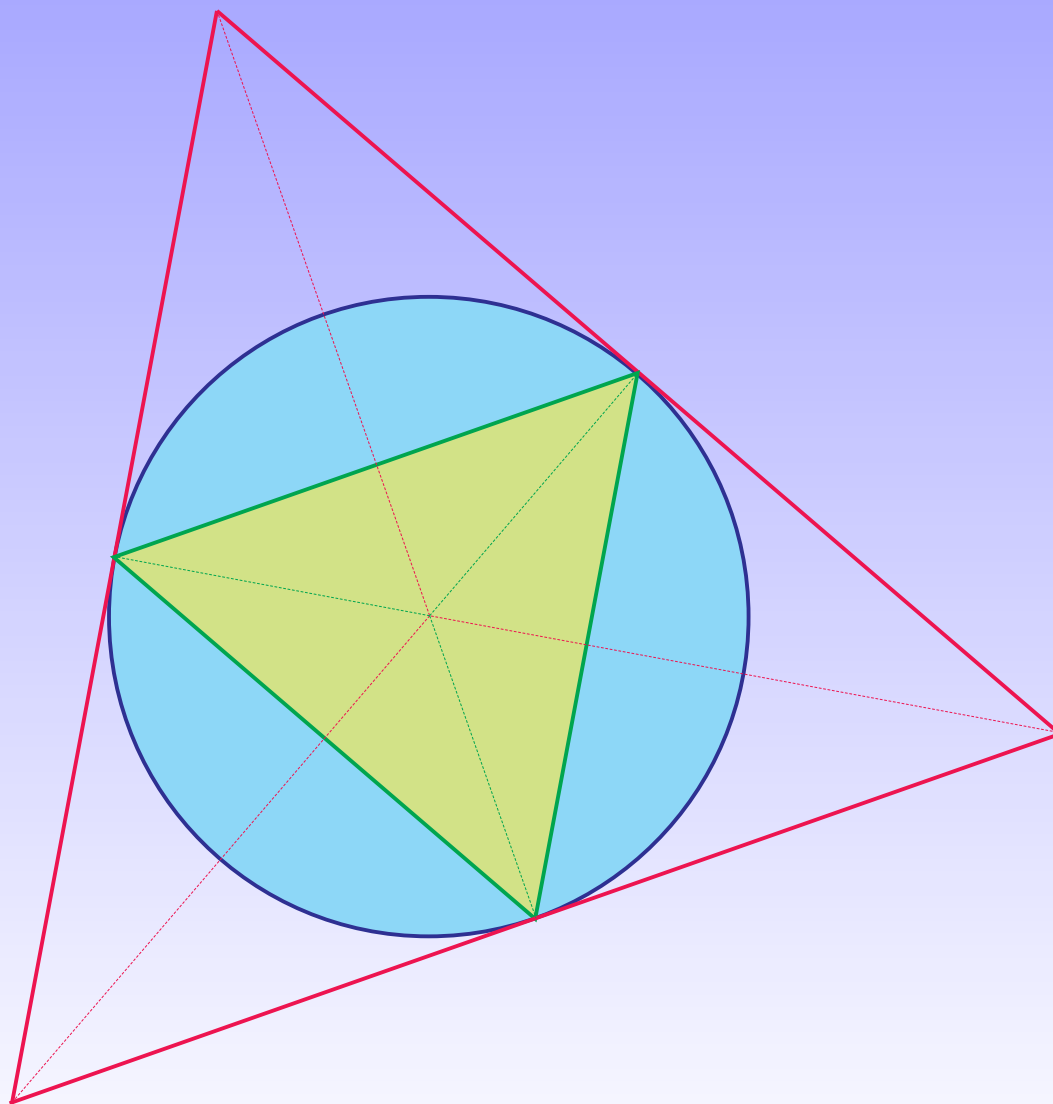
**Kragujevac, 15. januar 2012.**

# Površina kruga



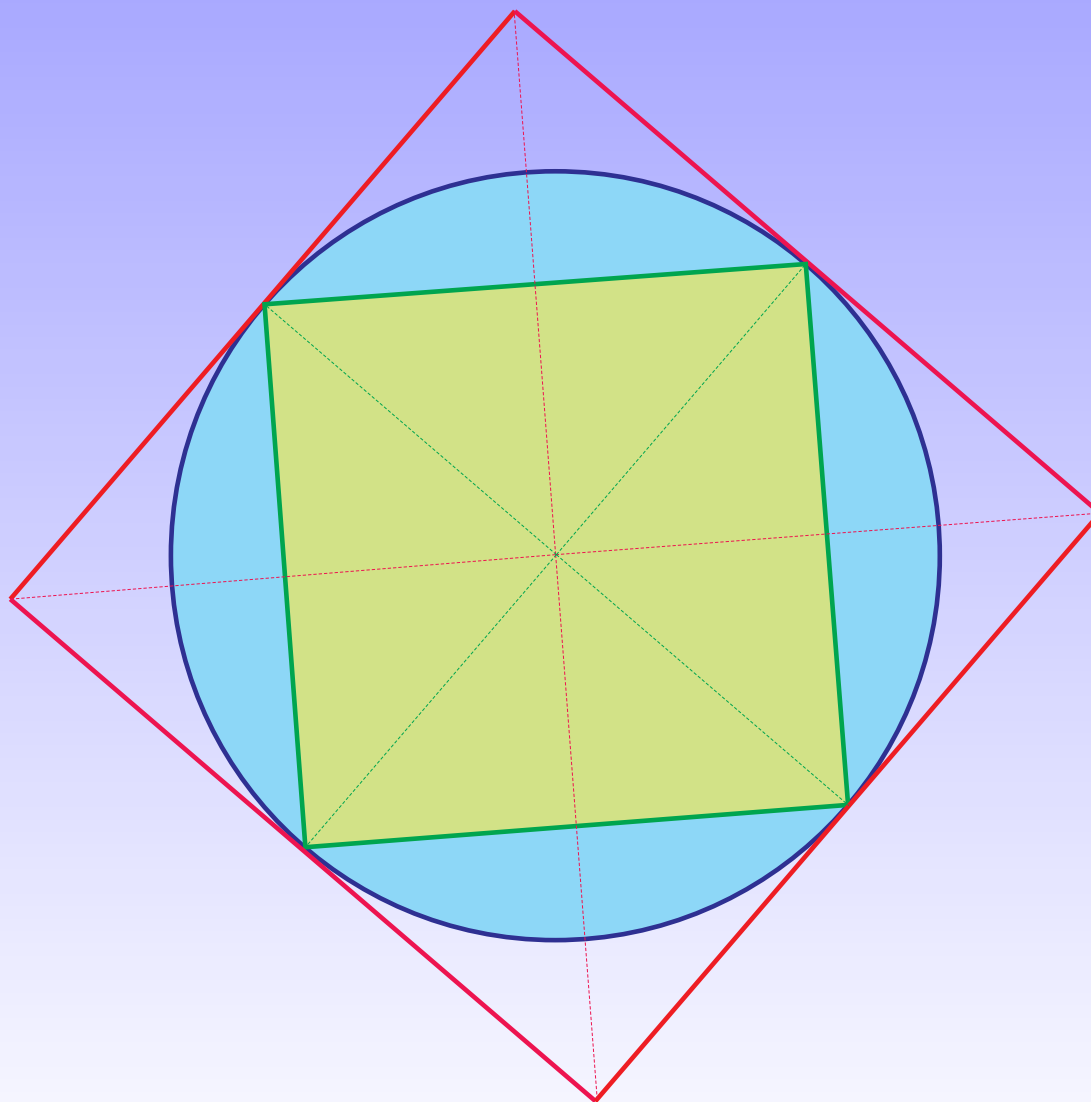
# Upisani i opisani $n$ -tougao

$n = 3$



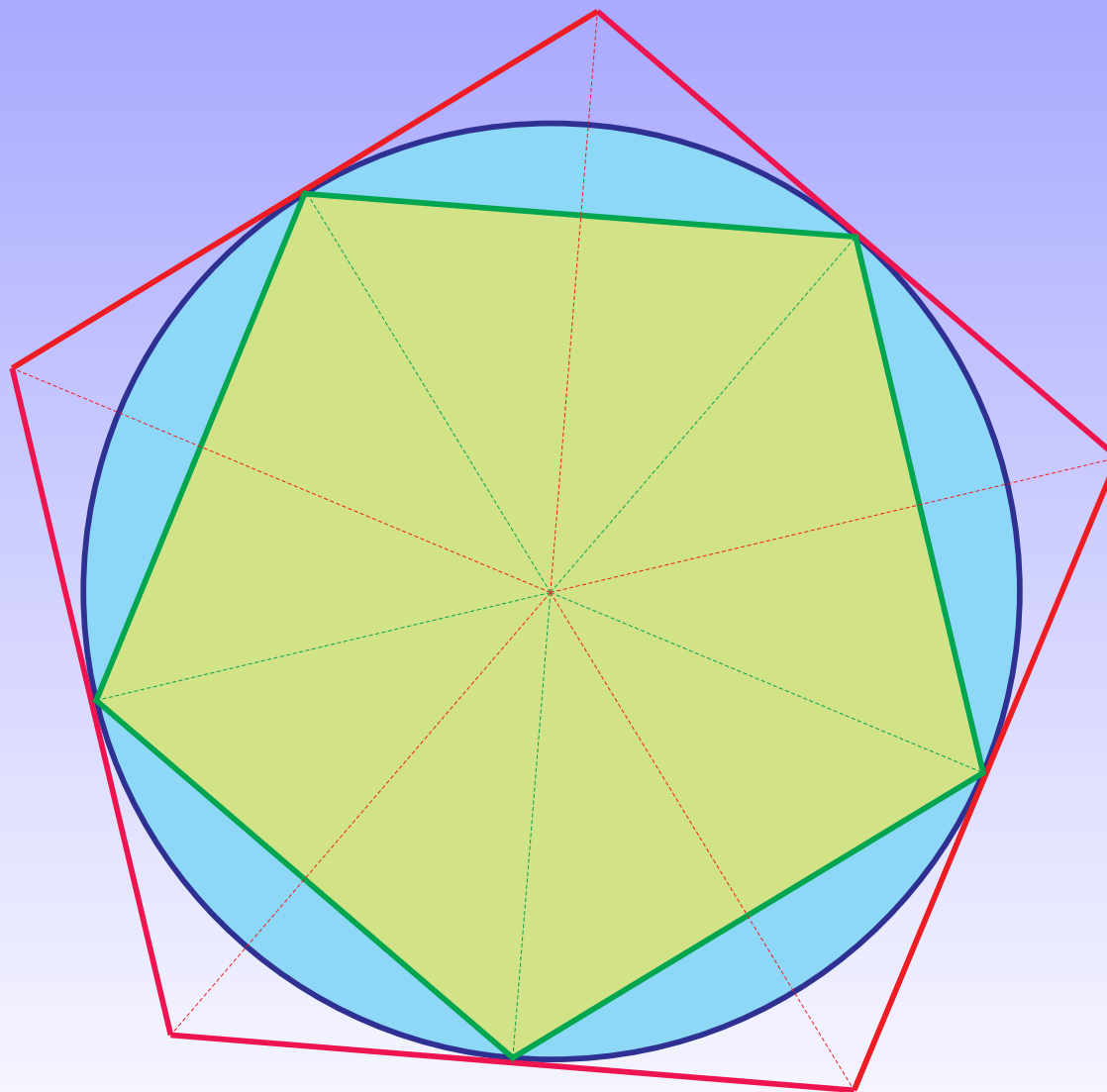
# Upisani i opisani $n$ -tougao

$n = 4$



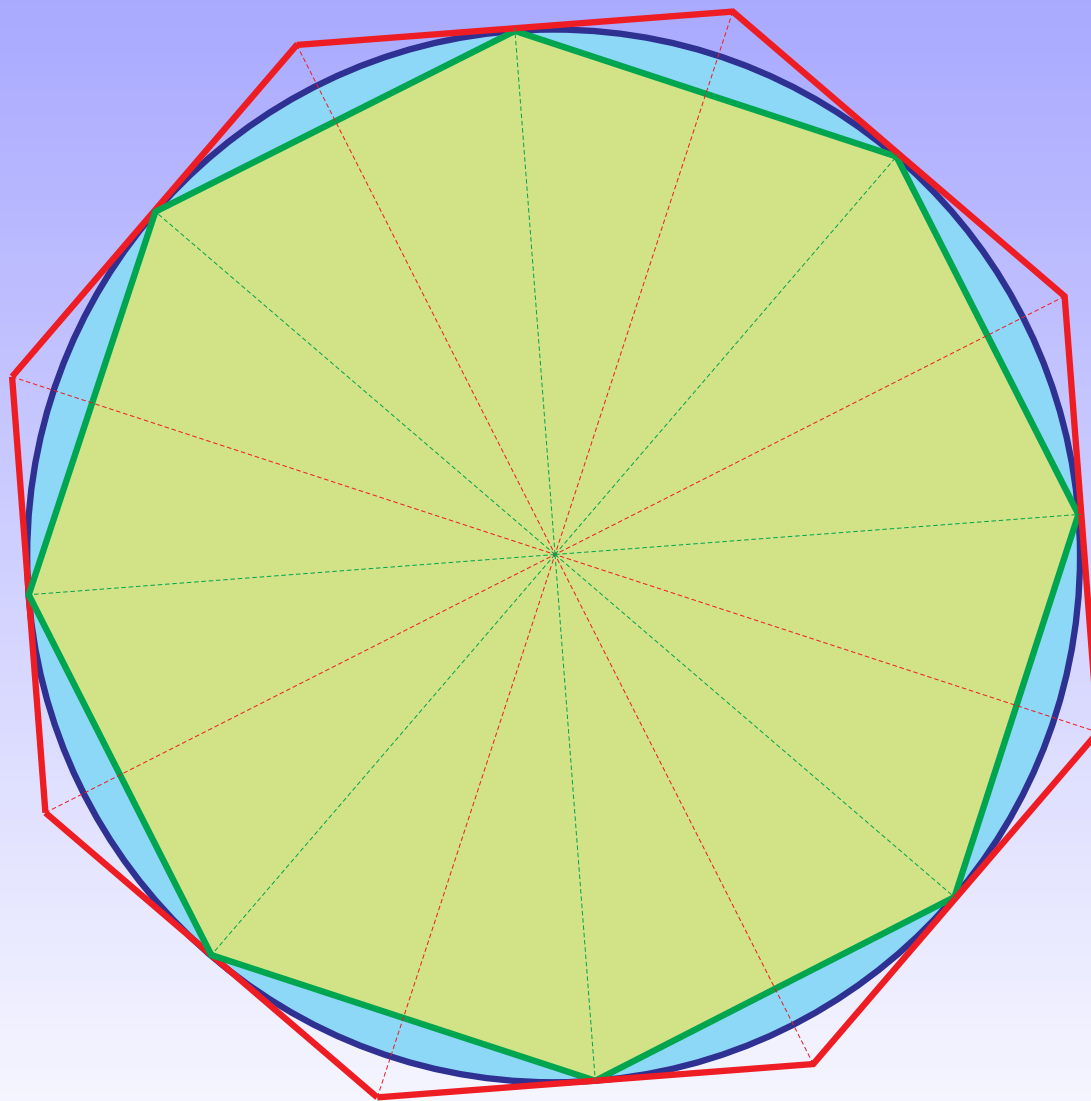
# Upisani i opisani $n$ -tougao

$n = 5$



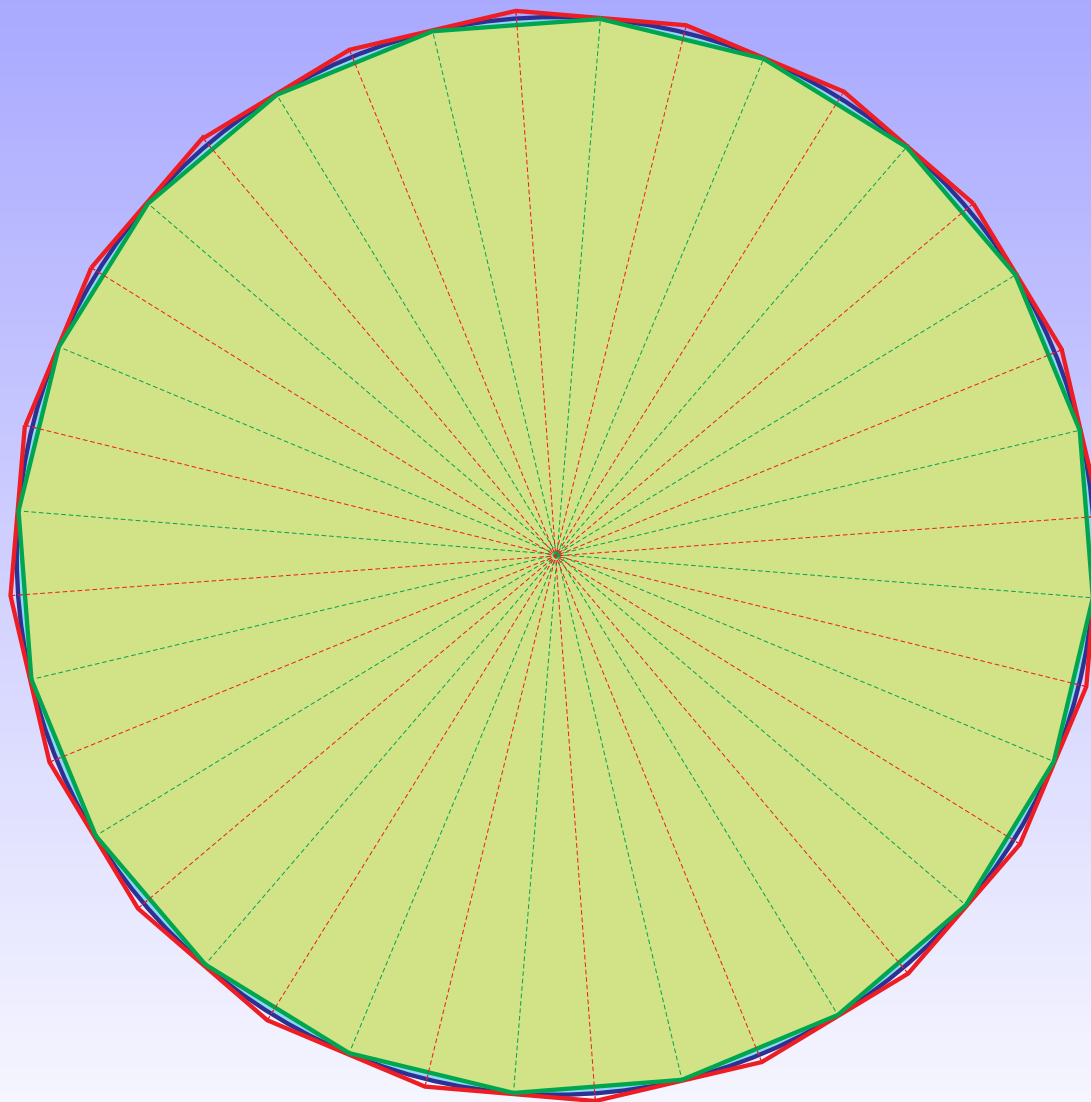
# Upisani i opisani $n$ -tougao

$$n = 8$$



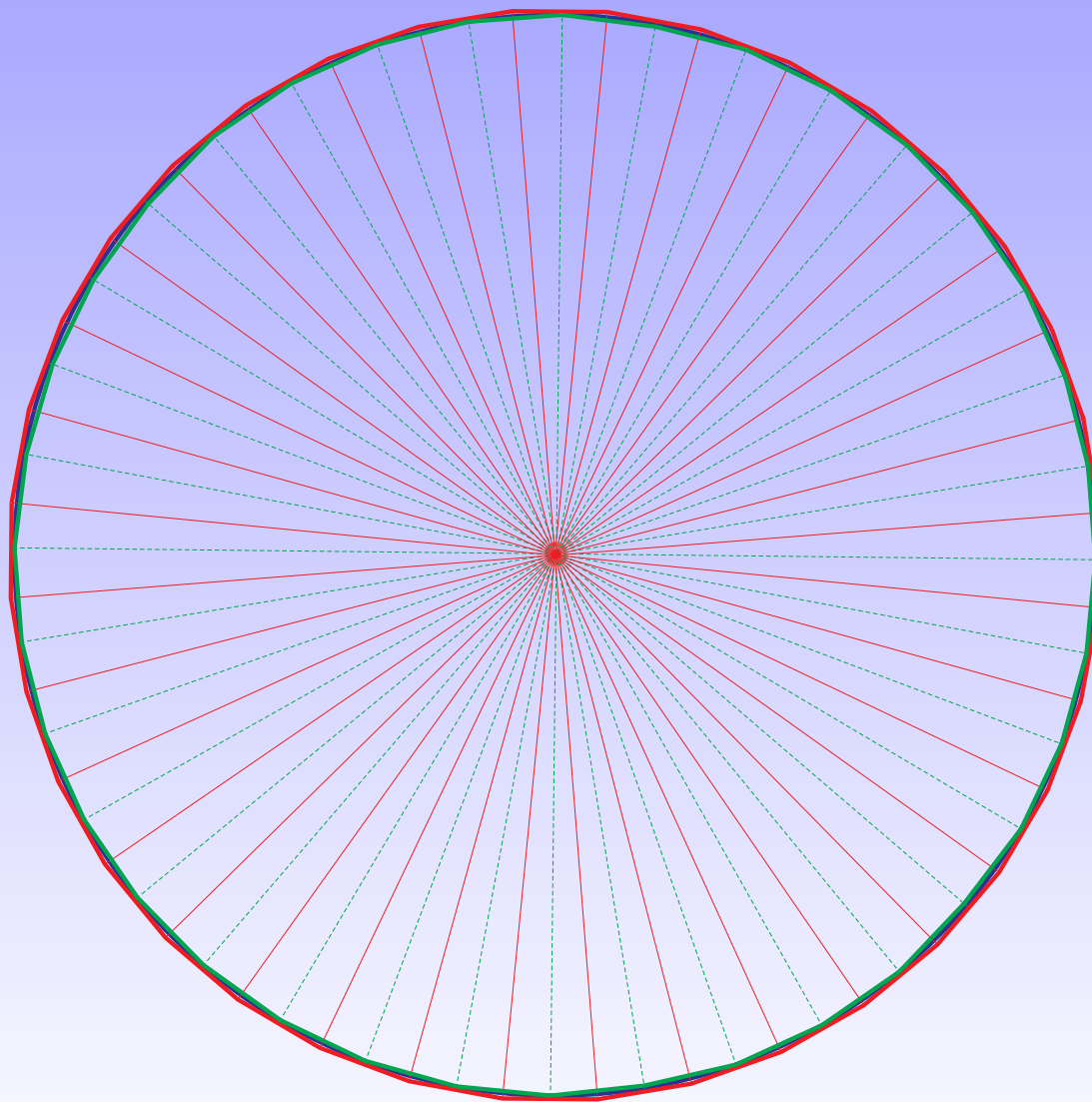
# Upisani i opisani $n$ -tougao

$n = 20$



# Upisani i opisani $n$ -tougao

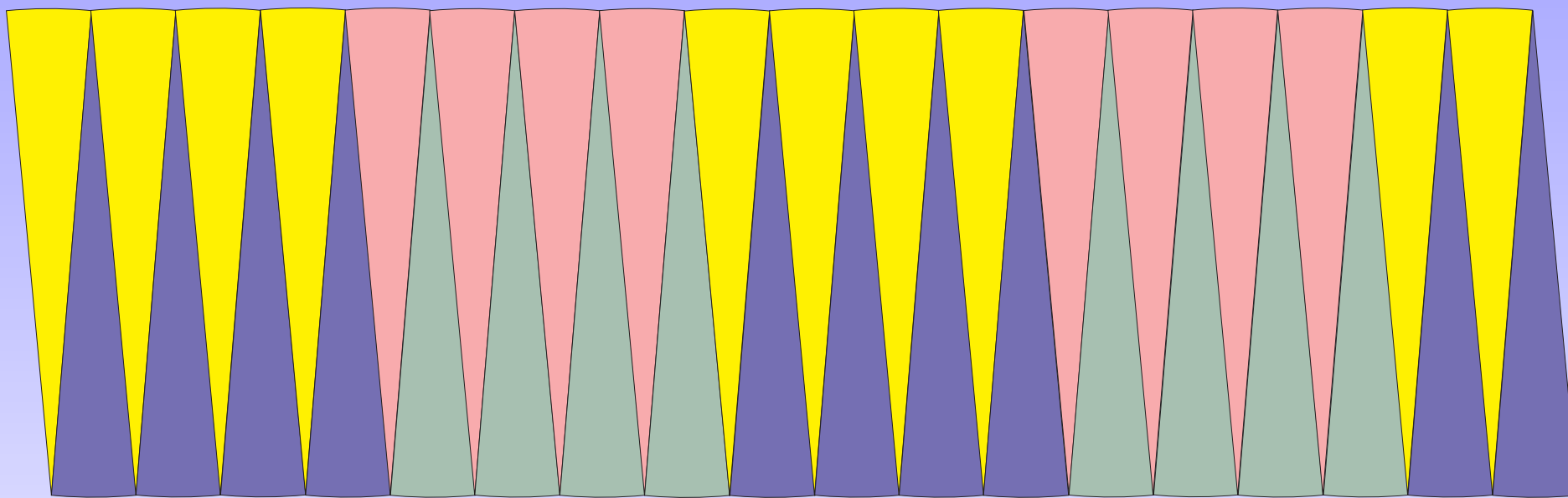
$n = 36$





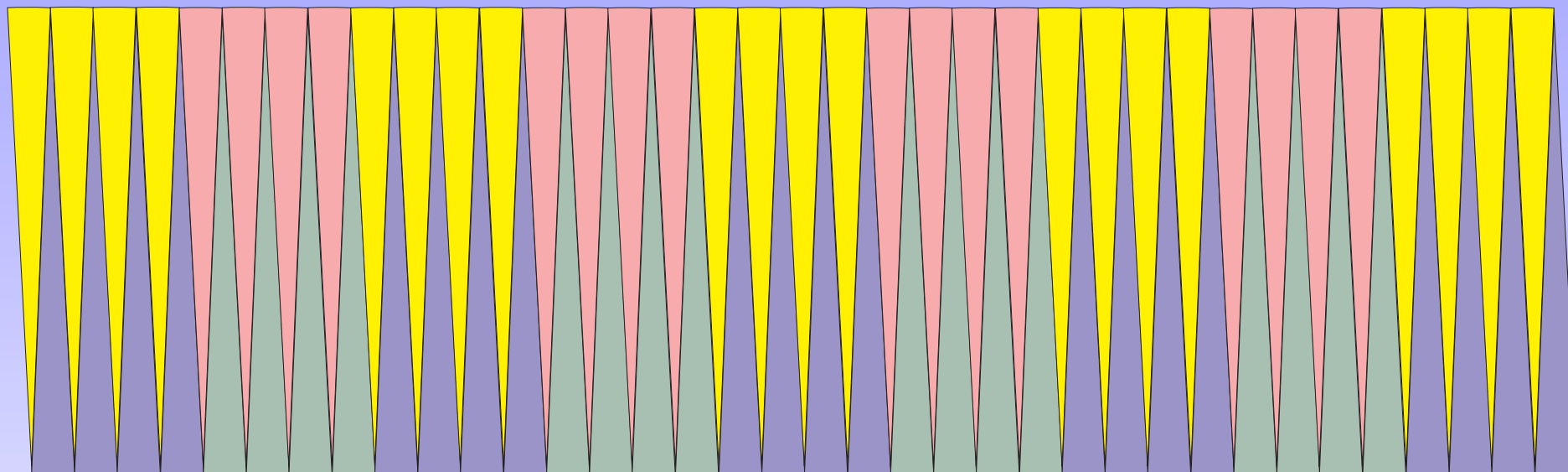
# Površina kruga

$$n = 36$$



# Površina kruga

$$n = 72$$



# Površina kruga

$$n = 120$$





# Broj $\pi$

$n = 10$       3,094061611895714



# Broj $\pi$

$n = 10$       3,094061611895714

$n = 50$       3,139532100895047



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$n = 10$       3,094061611895714

$n = 50$       3,139532100895047

$n = 100$      3,141076290400392



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$n = 10$       3,094061611895714

$n = 50$       3,139532100895047

$n = 100$      3,141076290400392

$n = 1000$     3,141587485917816



# Broj $\pi$

$n = 10$       3, 094061611895714

$n = 50$       3, 139532100895047

$n = 100$       3, 141076290400392

$n = 1000$       3, 141587485917816

$n = 10000$       3, 141592601912670





# Broj $\pi$

$n = 10$       3,094061611895714

$n = 50$       3,139532100895047

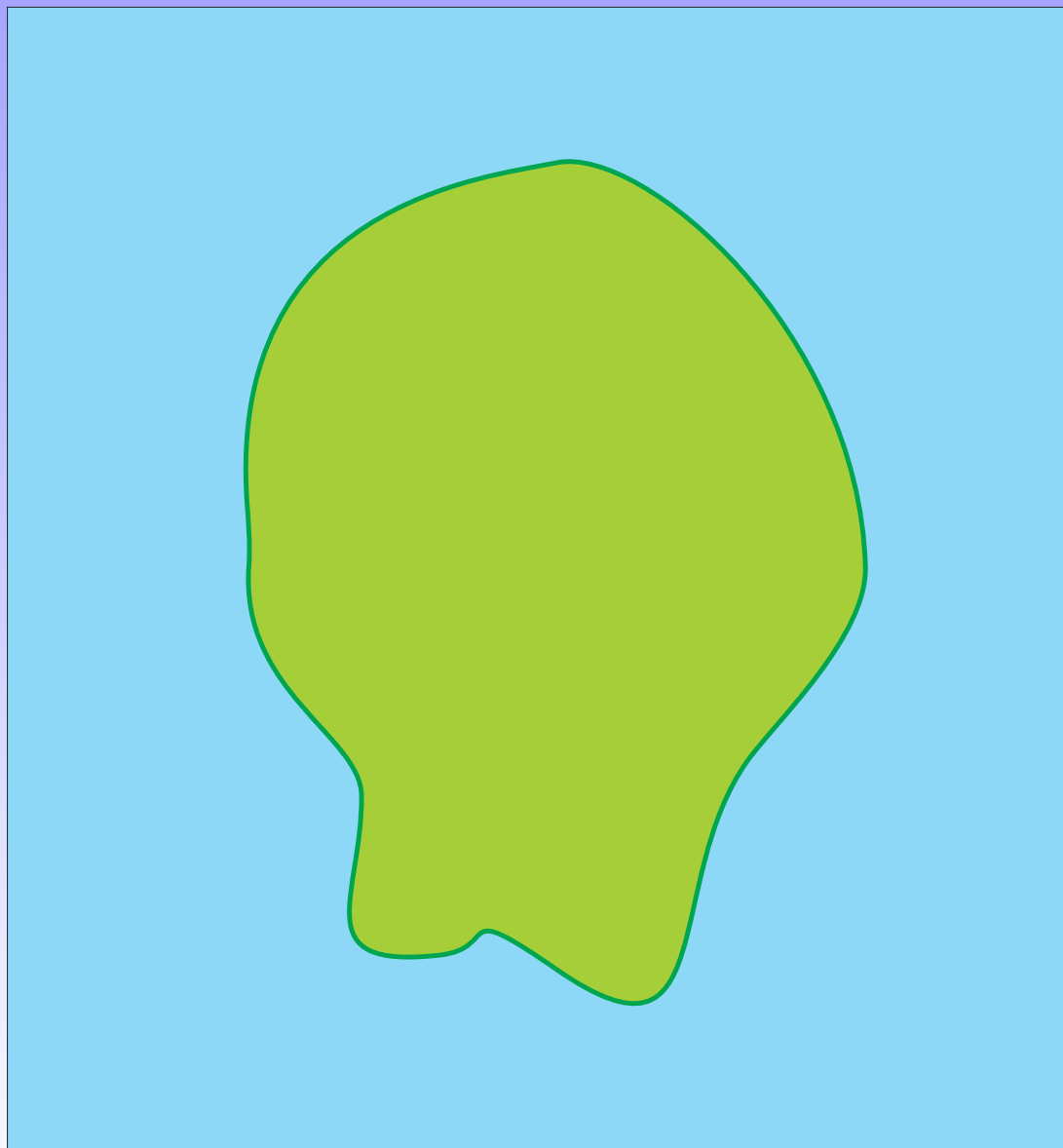
$n = 100$      3,141076290400392

$n = 1000$     3,141587485917816

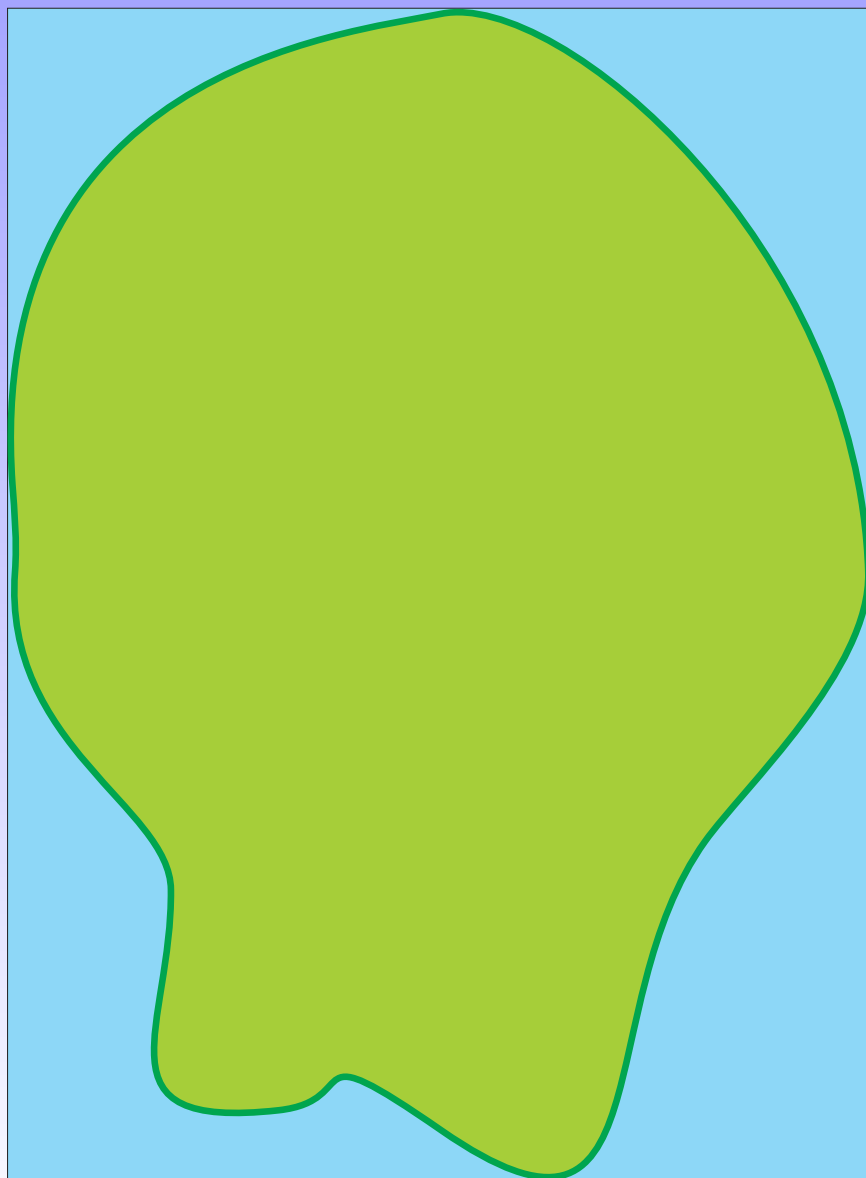
$n = 10000$    3,141592601912670

$\pi \approx 3.141592653589793$

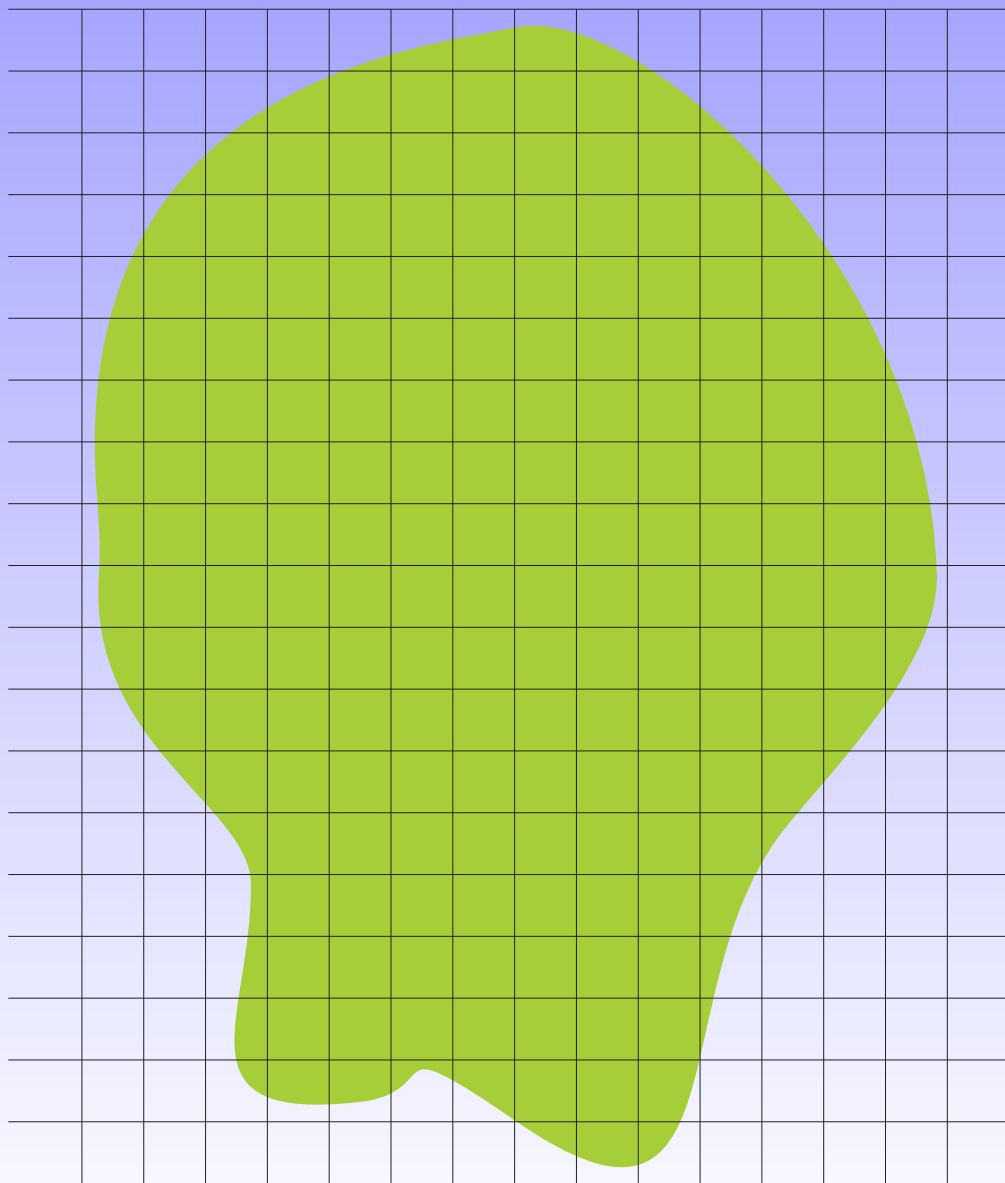
# Površina ostrva



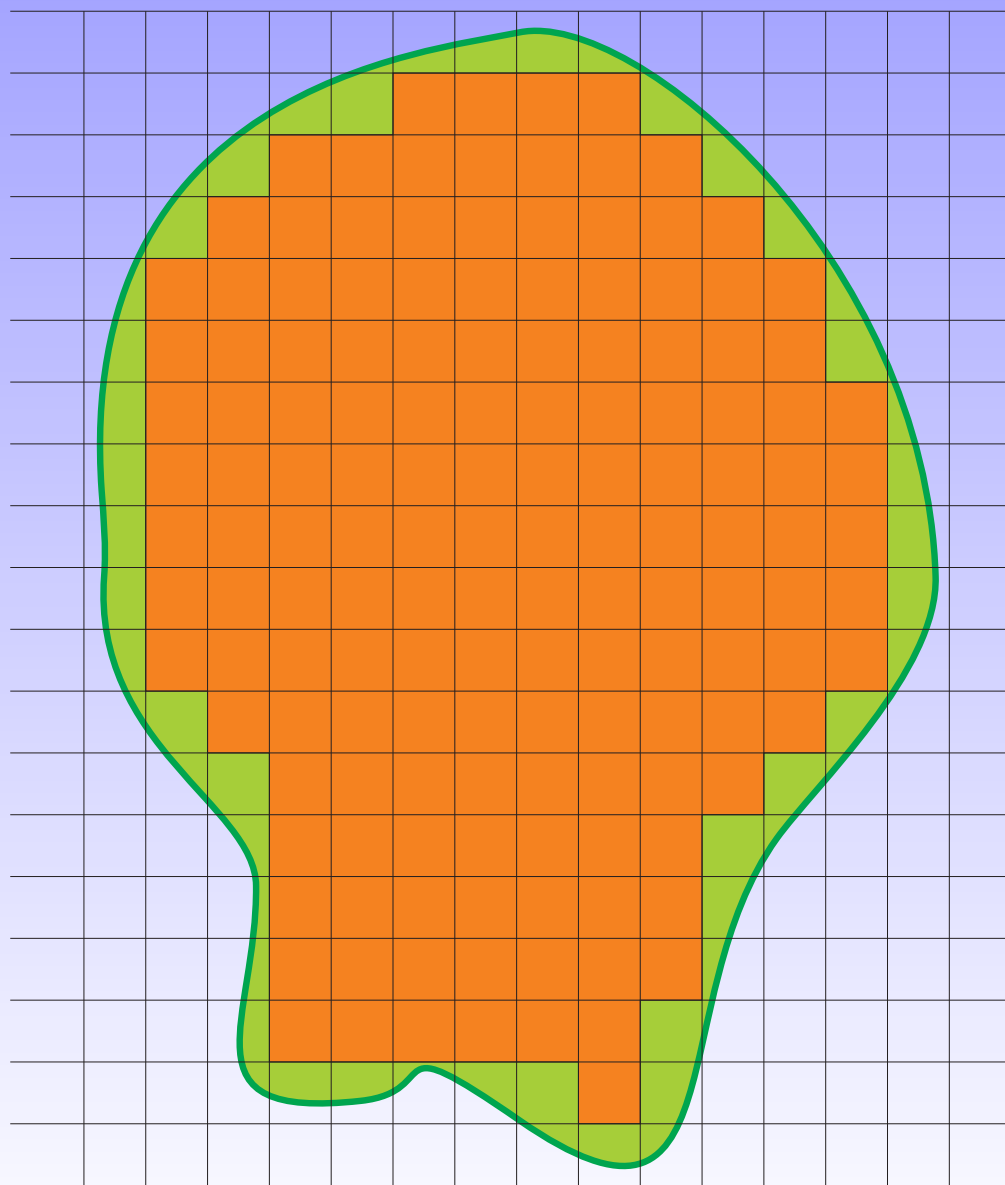
# Površina ostrva



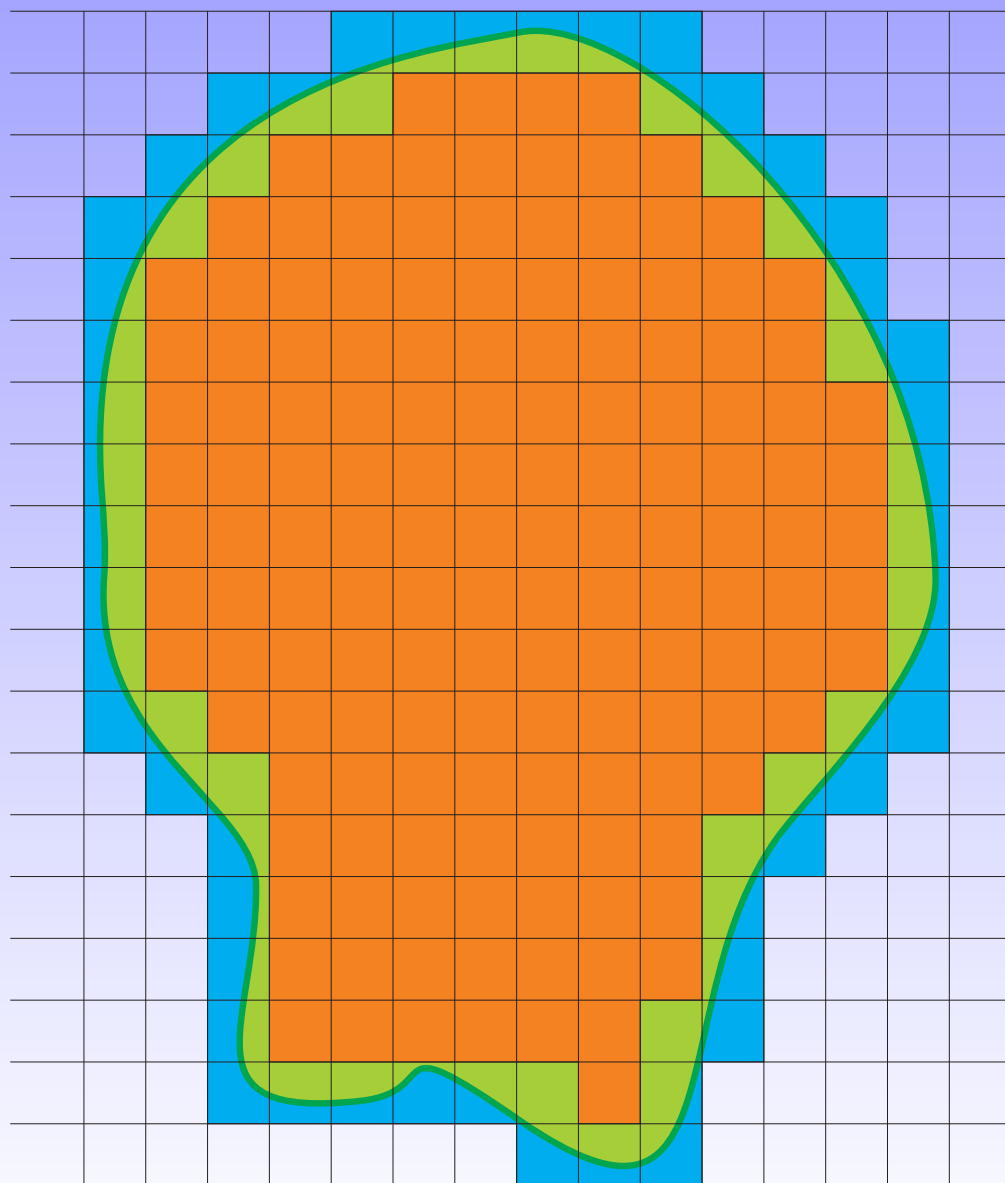
# Površina ostrva



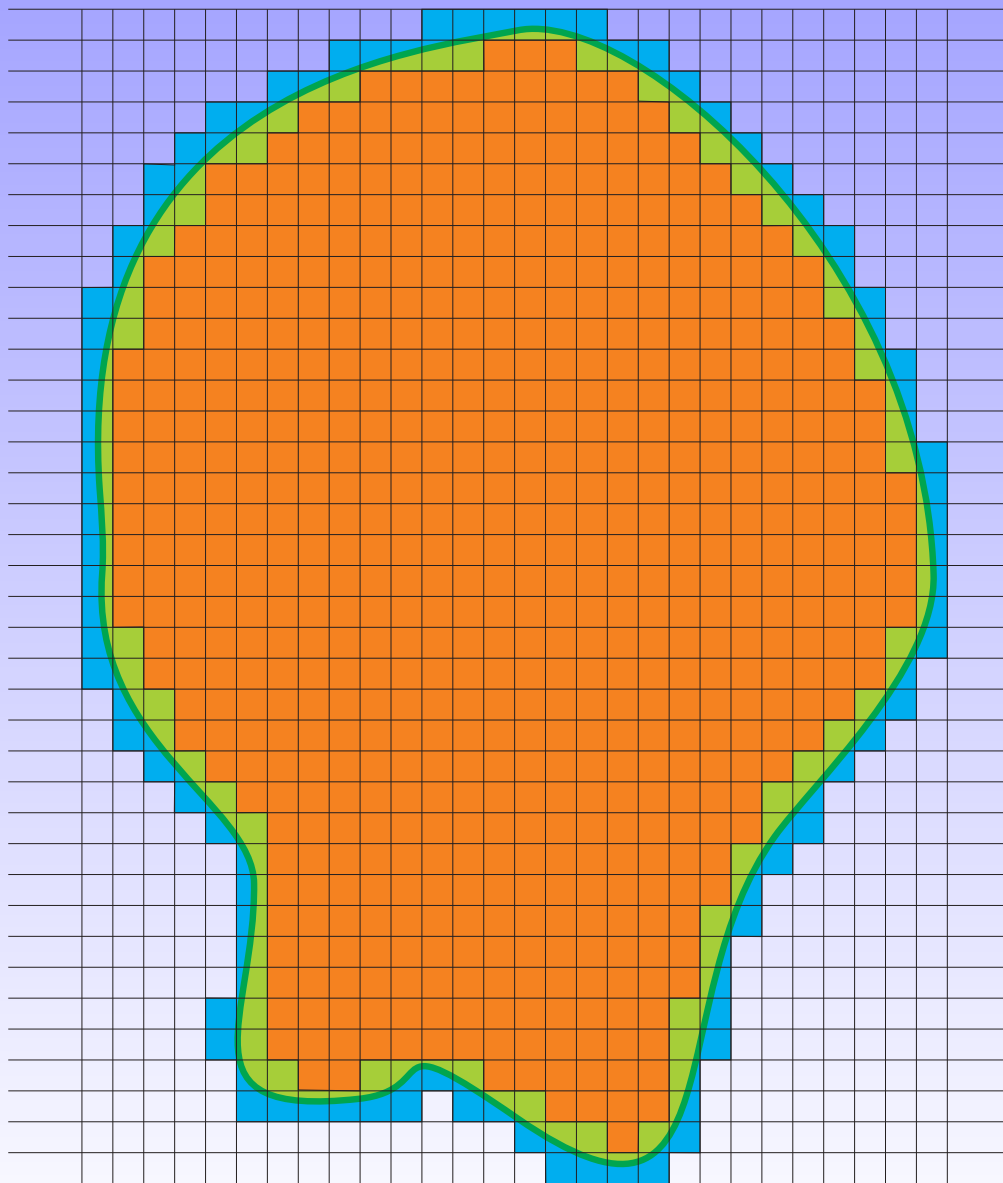
# Površina ostrva



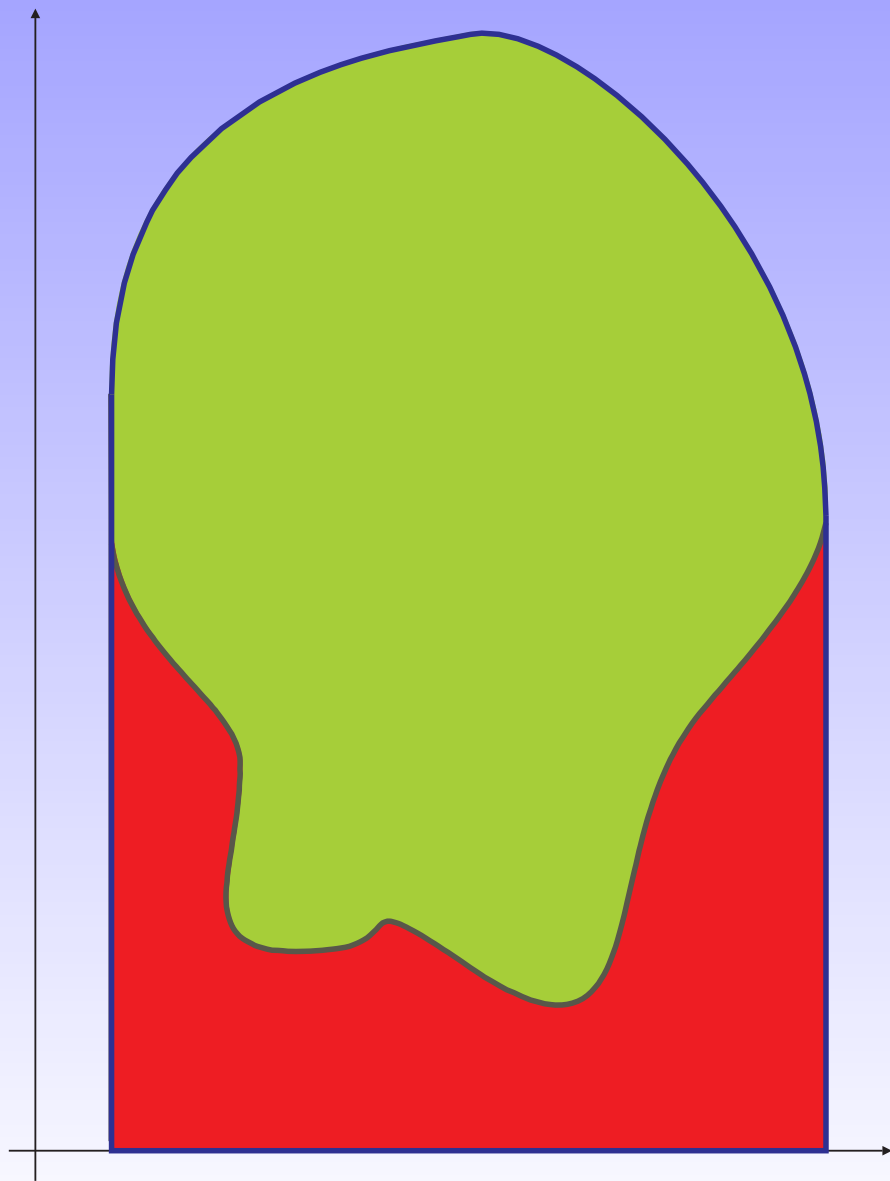
# Površina ostrva



# Površina ostrva

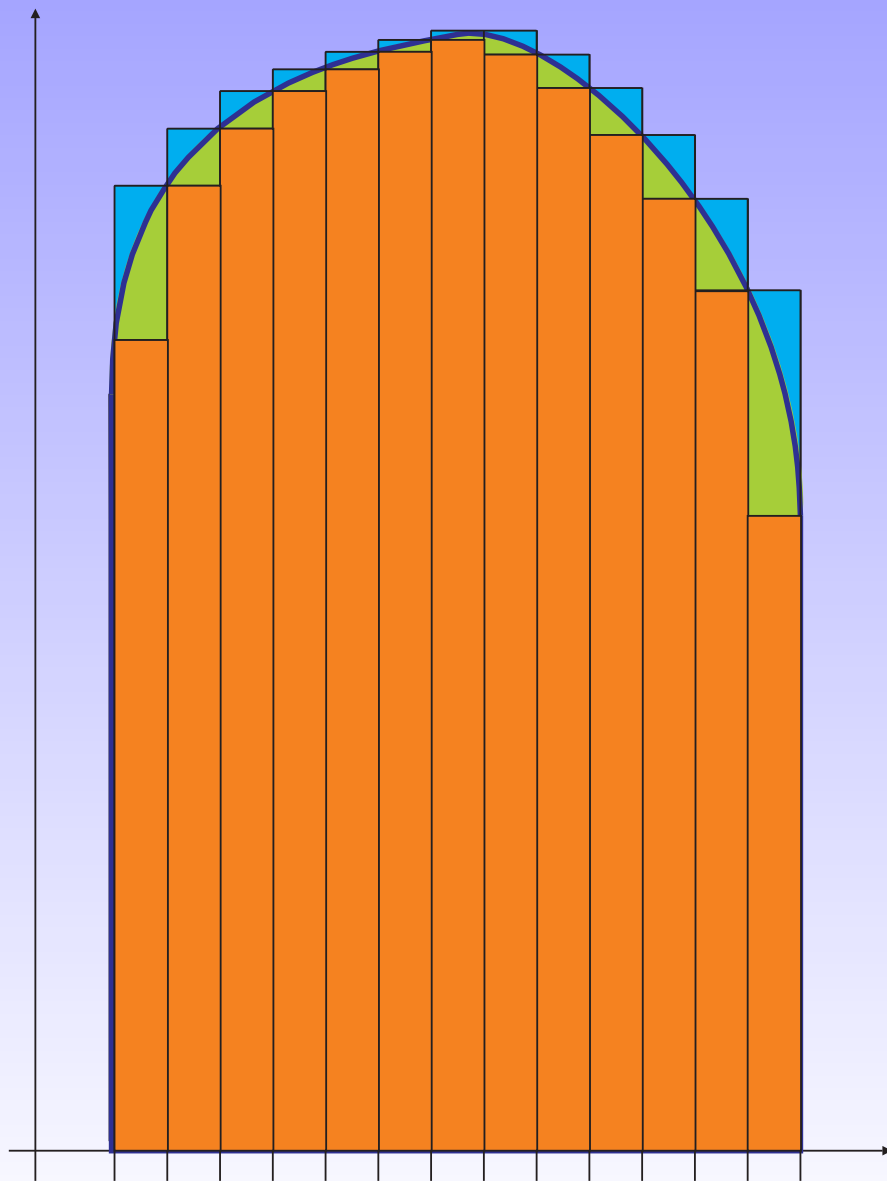


# Površina krivolinijskih trapeza

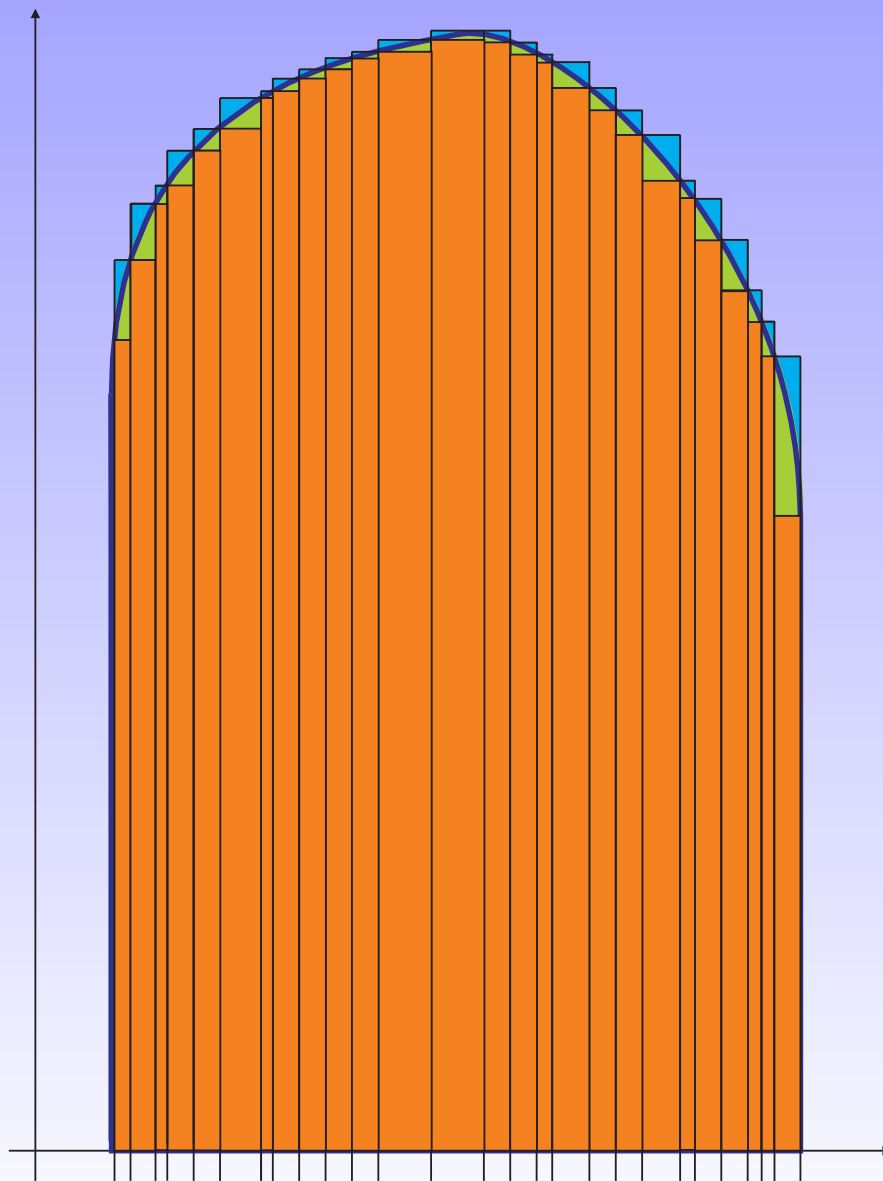




# Gornja i donja integralna suma



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# Primer

$$f(x) = 3(x - 2)^3 + 5(x - 2)^2 + 20 \ln x + 2;$$



# Primer

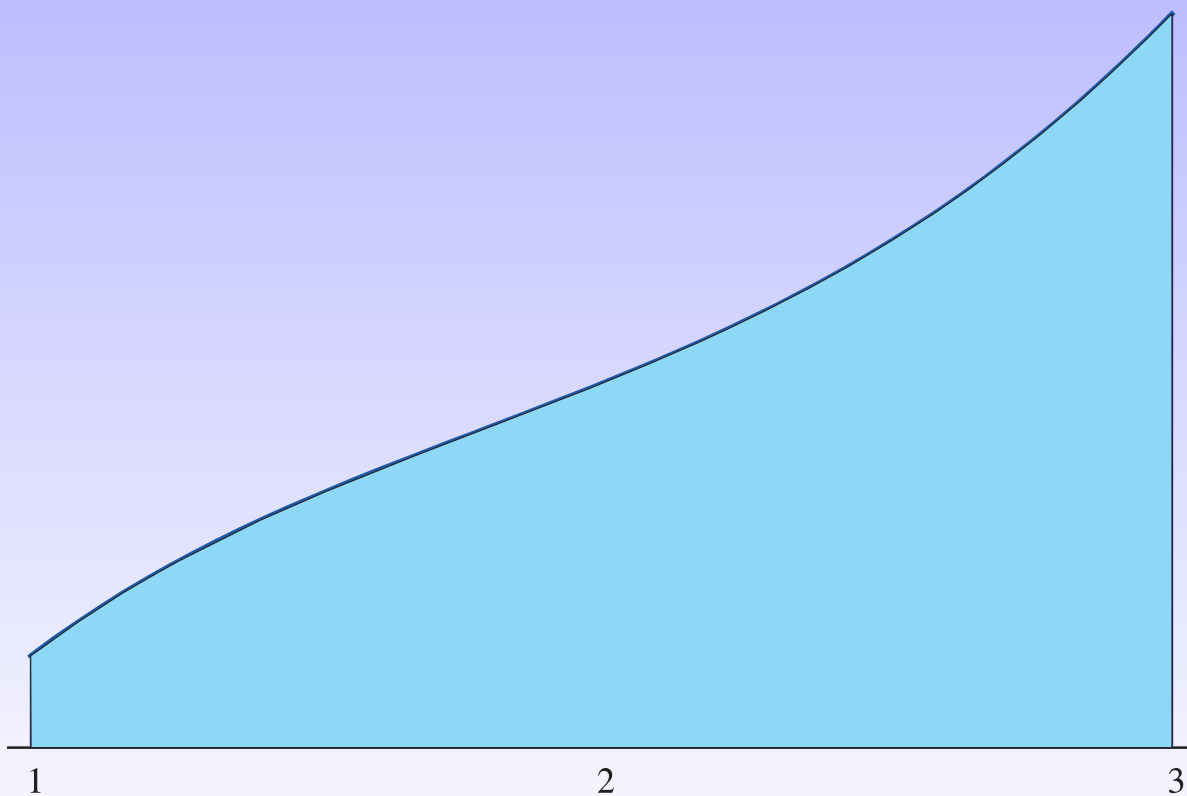
$$f(x) = 3(x - 2)^3 + 5(x - 2)^2 + 20 \ln x + 2;$$

$$\int_1^3 f(x) dx?$$

# Primer

$$f(x) = 3(x - 2)^3 + 5(x - 2)^2 + 20 \ln x + 2;$$

$$\int_1^3 f(x) dx?$$





# Linkovi

[geogebra.matf.bg.ac.rs](http://geogebra.matf.bg.ac.rs)



# Linkovi

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(Skripte → Obrazovni softver)



**HVALA NA PAŽNJI  
I STRPLJENJU!**