

2D

1.Create

1.1 Arc

- Basic input data

Center point X: 0

Center point Y: 0

Center point Z: 0


Radius: 10

Start angle: 0

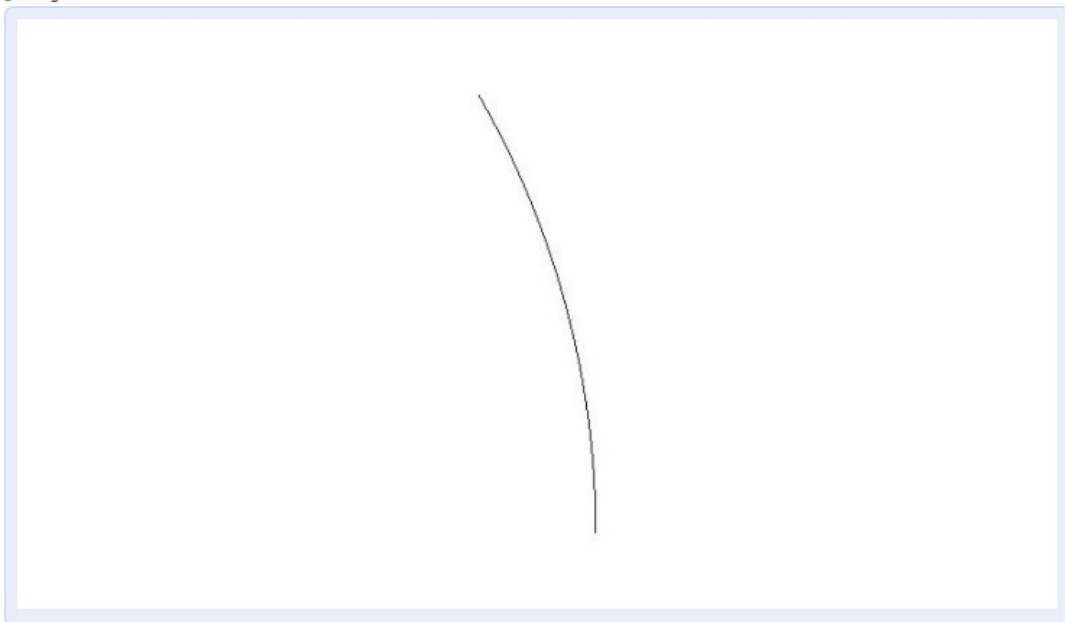
End angle: 30

Results

File

 Download Generated DXF

Image



1.2 Circle

- Basic input data

Center point X: 0

Center point Y: 0

Center point Z: 0

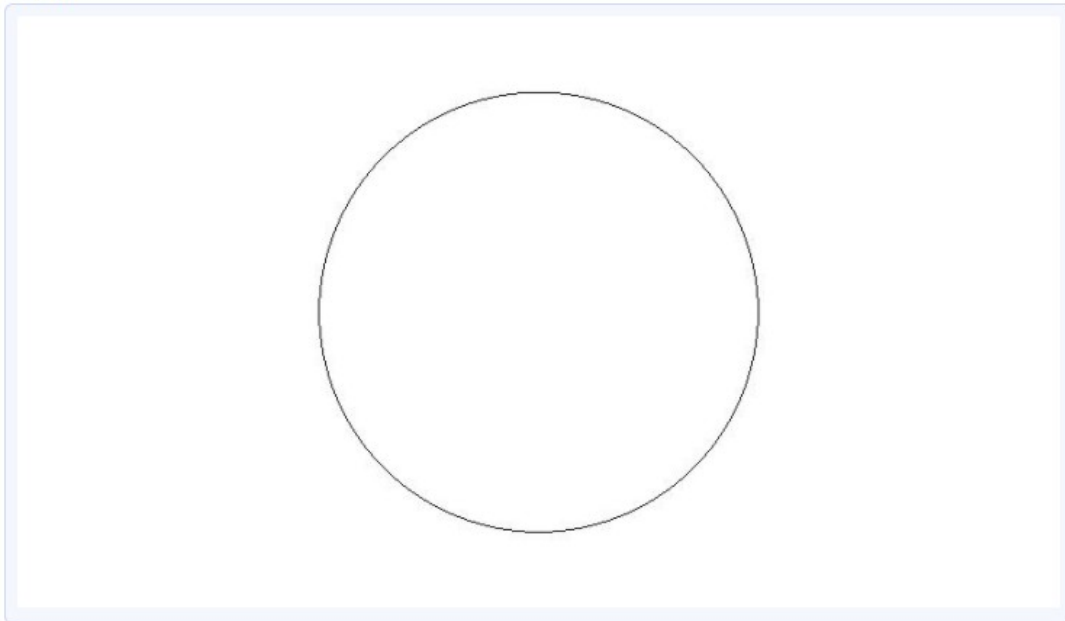
Radius: 15

Results

File

Download Generated DXF

Image



1.3 Ellipse

- Basic input data

Center point X: 0

Center point Y: 0

Center point Z: 0

Radius A: 5

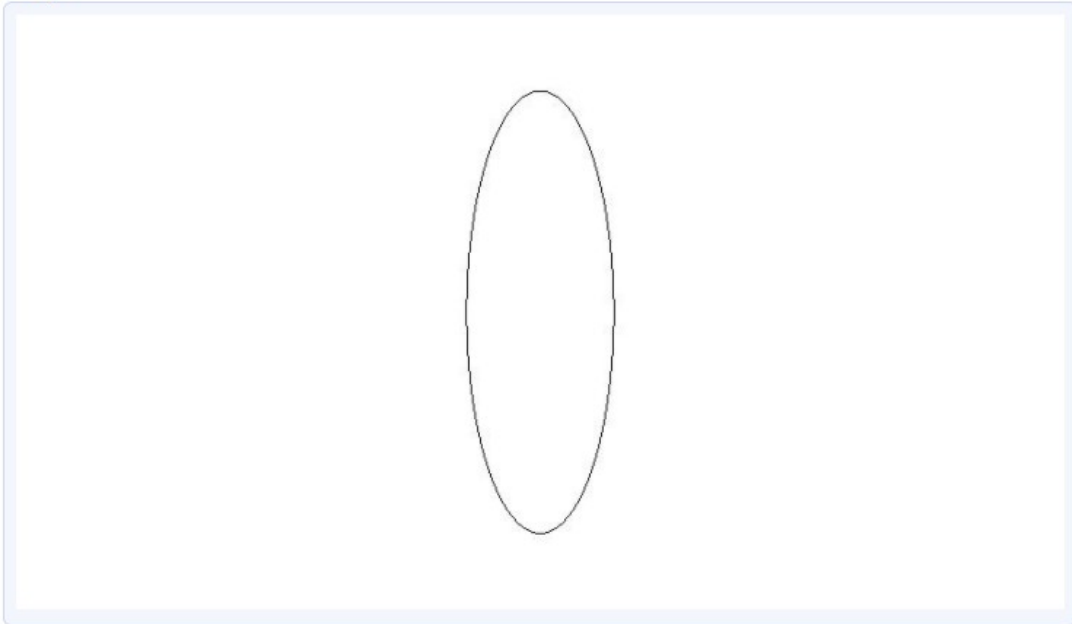
Radius B: 15

Results

File

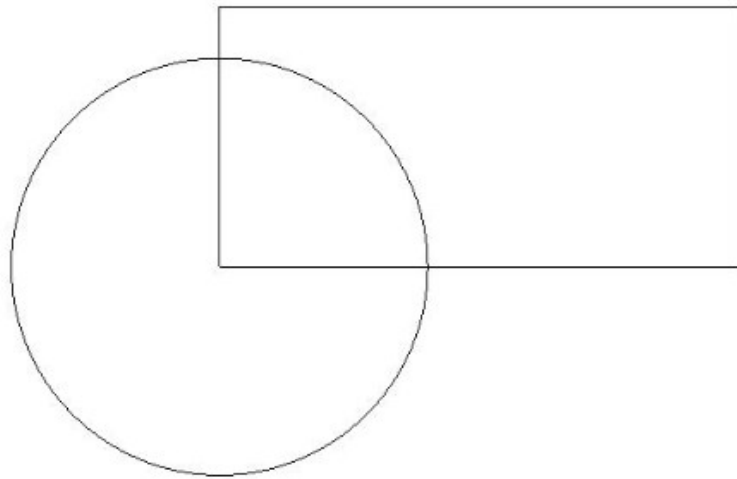
Download Generated DXF

Image

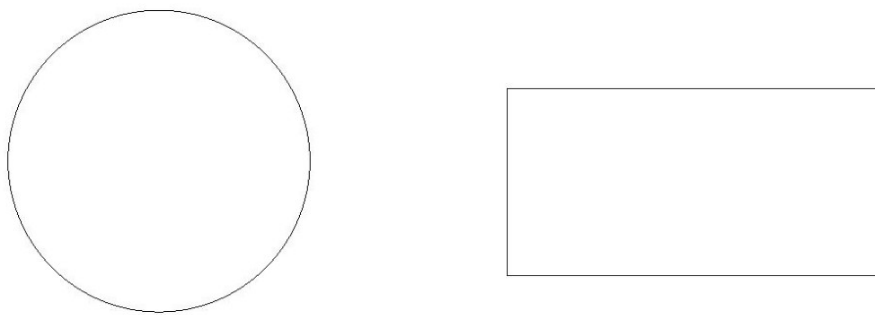


1.4 Explode to files

Original file



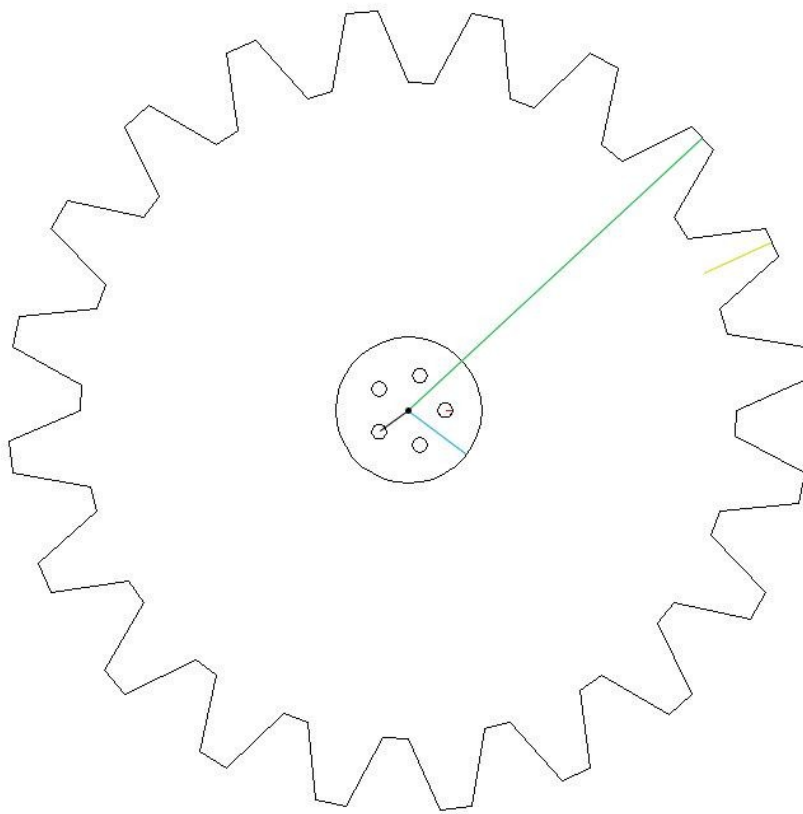
After Explode



1.5 Gear

The Gear to G-Code app help us to make a gear.

Example:



Inner circle radius: 20

Outer circle radius: 100

Number of teeth: 20

Tooth depth: 20

Number of radial holes: 5

Radial holes radius: 2

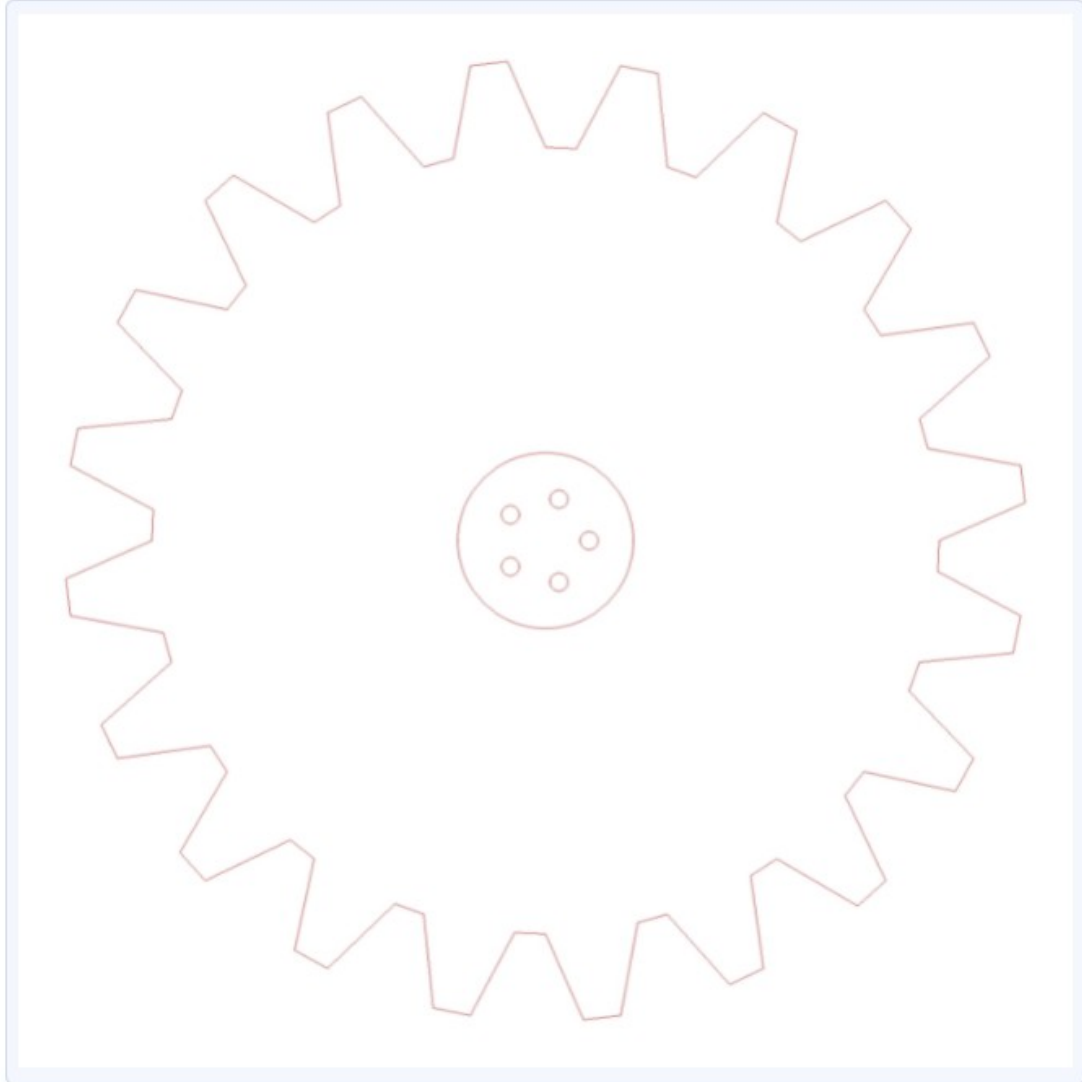
Radial holes distance: 10

Result:

File

Download Generated DXF

Image



1.6 Hatch

Example 1

- Basic input data

Distance: 0.5

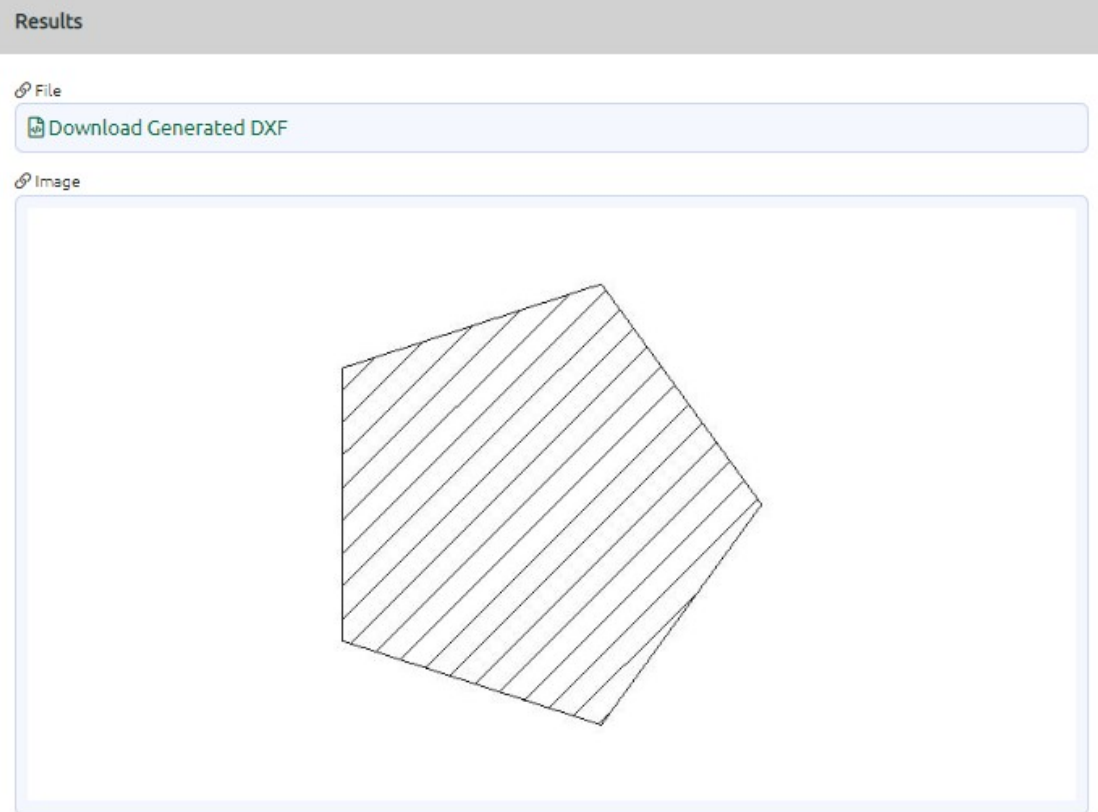
Angle: 45

Outline: Yes

Inside: Yes

Border: No

Mask: -



Example 2 (outside delineation)

- Basic input data

Distance: 0.5

Angle: 45

Outline: Yes

Inside: No

Border: No

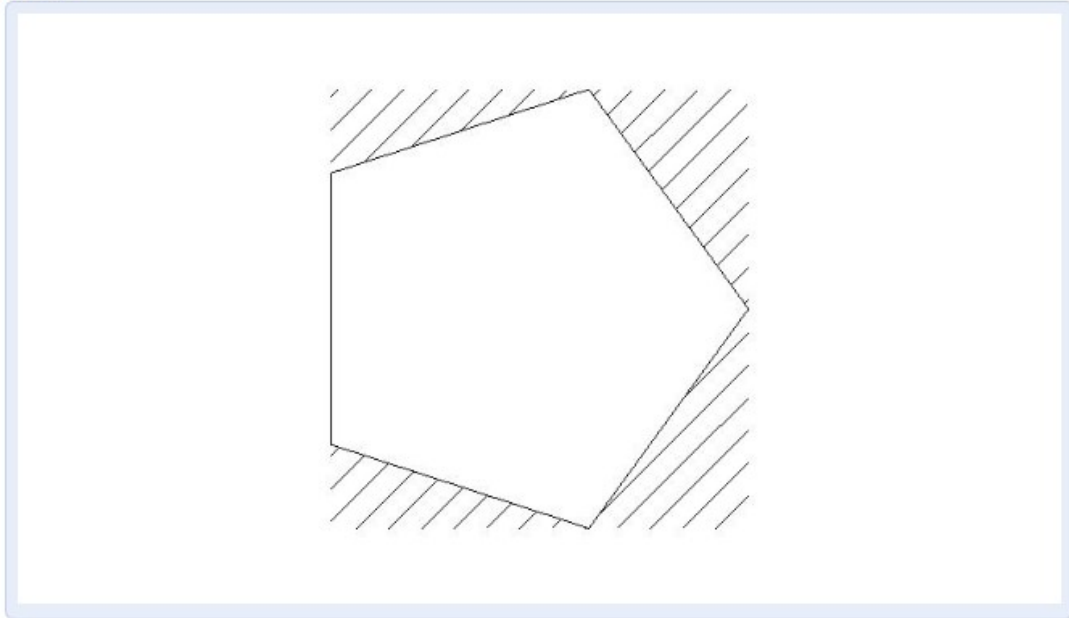
Mask: -

Results

File

Download Generated DXF

Image



Example 3 (No Outline no Border)

- Basic input data

Distance: 0.5

Angle: 45

Outline: No

Inside: Yes

Border: Yes

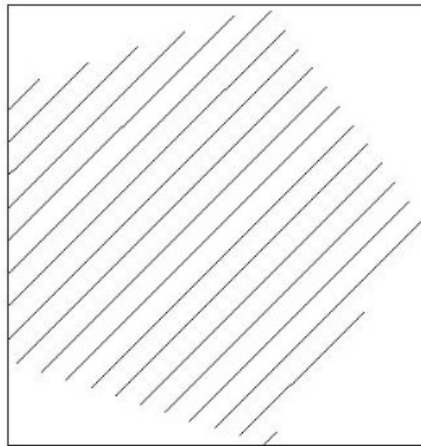
Mask: -

Results

File

Download Generated DXF

Image



Example 4

- Basic input data

Distance: 0.5

Angle: 45

Outline: Yes

Inside: Yes

Border: No

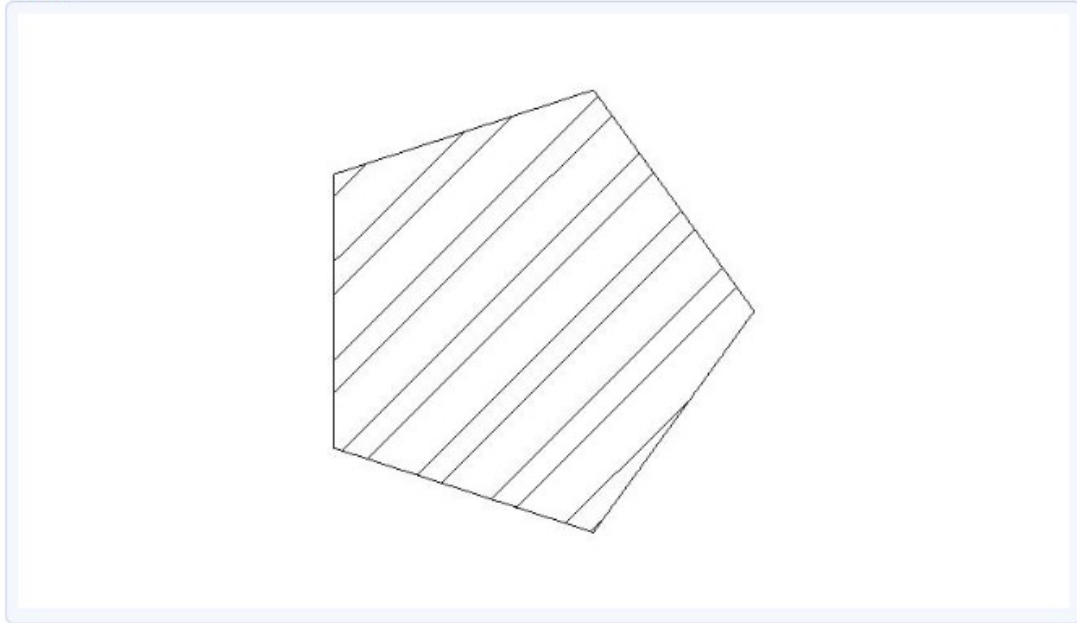
Mask: 101

Results

File

Download Generated DXF

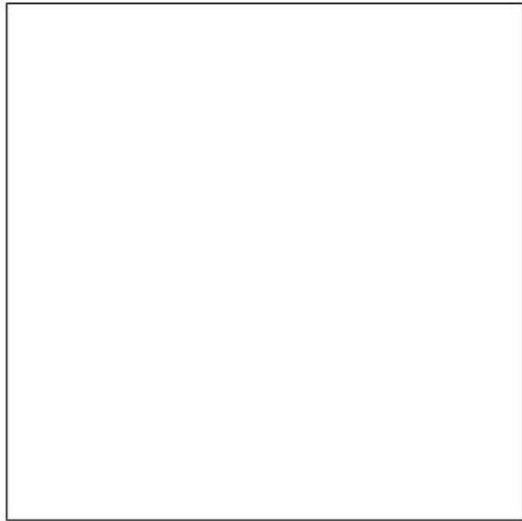
Image



1.7 Copy in/out

Generates an internal or external copy of all polylines and circles on a drawing.

Original image:



- Basic input data

Distance: 0.5

Direction: Outside

Join type: Round

Keep original: Yes

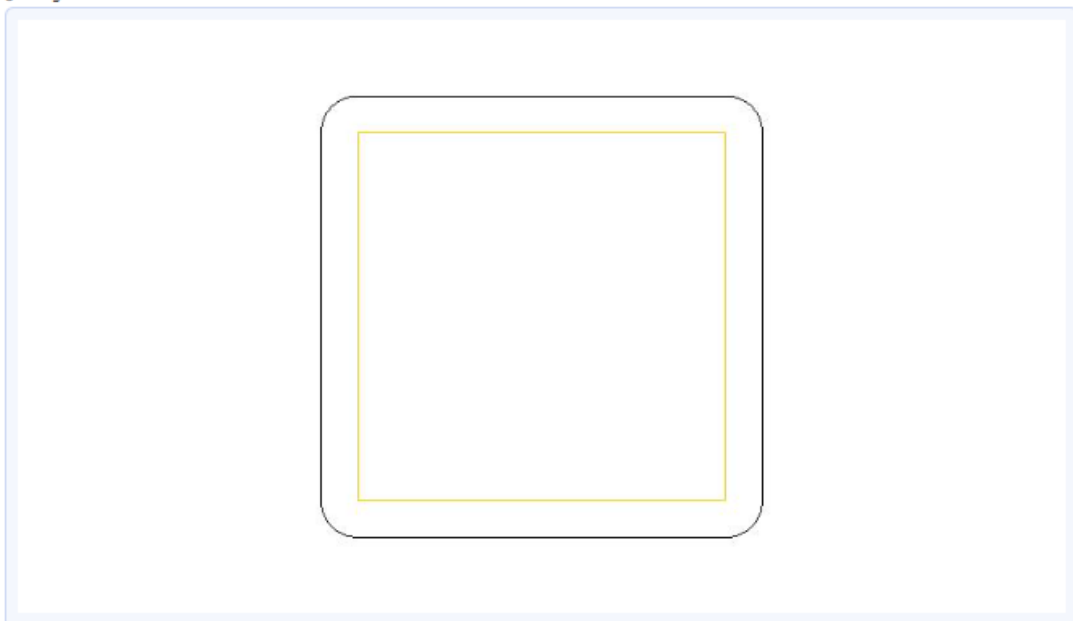
Result:

Results

File

 Download Generated DXF

Image



1.8 Line

- Basic input data

Start point X: 0

Start point Y: 0

Start point Z: 0

End point X: 10

End point Y: 10

End point Z: 0

Results

File

 Download Generated DXF

Image



1.9 Lines from file

Create line from a file

txt file:

0,0,0,10,10,0

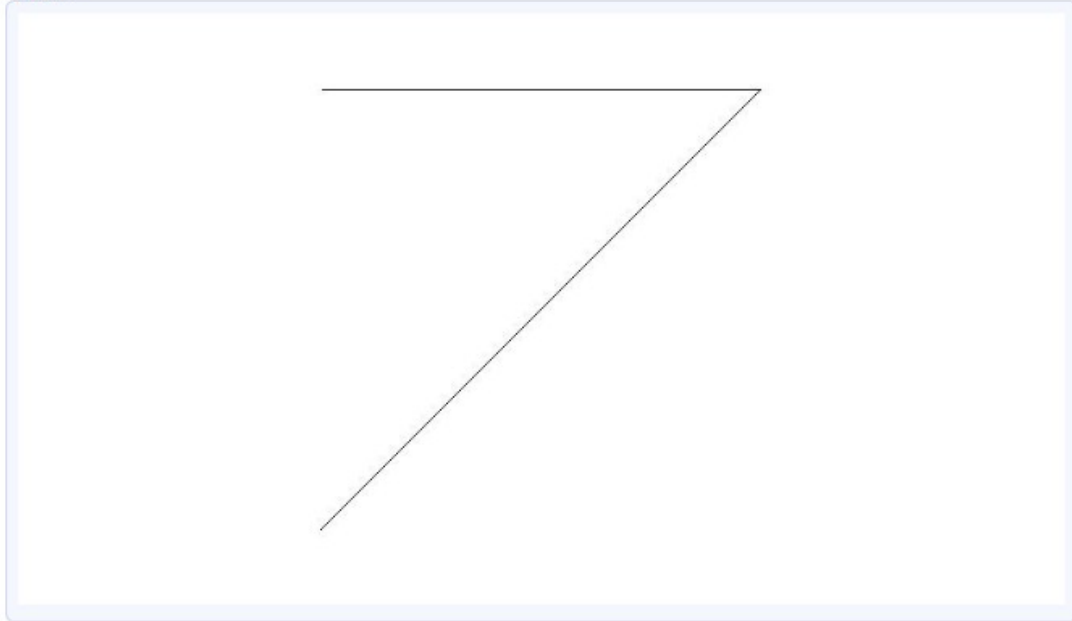
10,10,0,0,10,0

Results

File

Download Generated DXF

Image



1.10 Merge DXF files

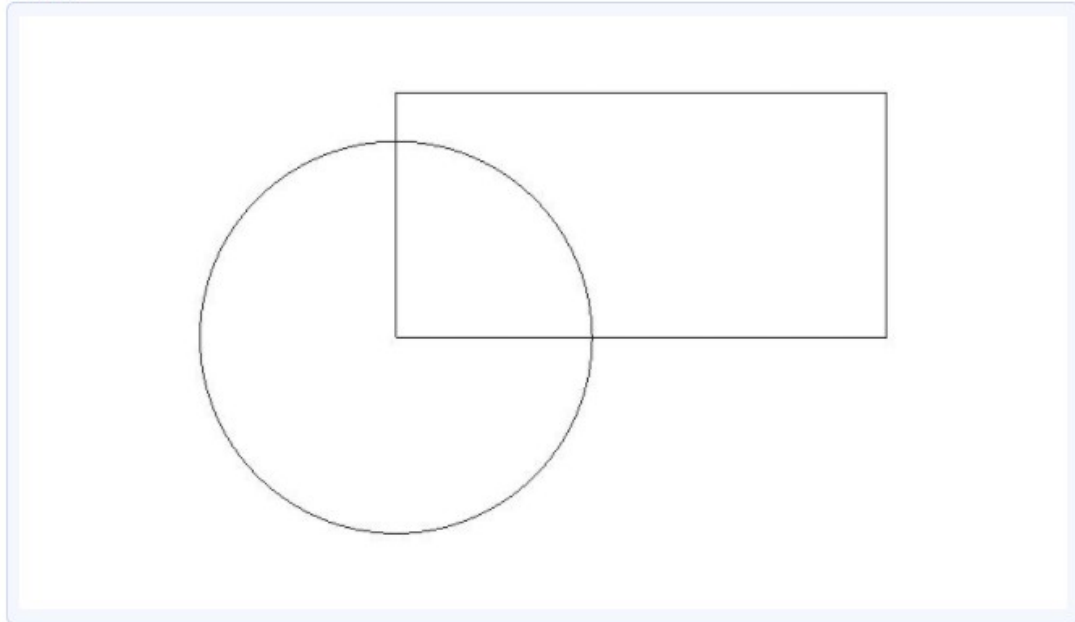
Merge DXF files tool allows you to combine two or more drawing files (dxf, dwg). For example, if we upload a circle and rectangle dxf file this is the result.

Results

File

Download Generated DXF

Image



1.11 Point

Point tool allows you to create a point in a xyz axis by inputting the respectively data.

1.12 Points from file

Create points from a file

txt file:

0,0,0

0,10,0

10,10,0

10,0,0

0,0,0

Results

File

Download Generated DXF

Image



1.13 Polyline

- Basic input data

Vertex 1

X: 0

Y: 0

Z: 0

Vertex 2

X: 10

Y: 0

Z: 0

Vertex 3

X: 8

Y: 5

Z: 0

Vertex 4

X: 2

Y: 5

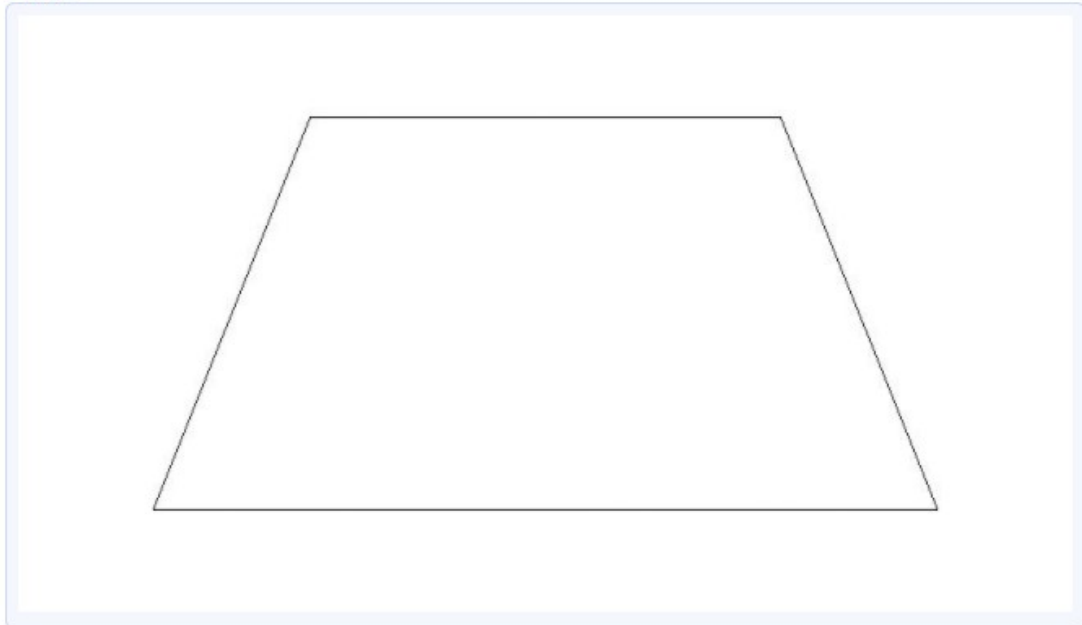
Z: 0

Results

File

Download Generated DXF

Image



1.14 Polyline from file

Create polyline with vertices from a file

txt file:

0,0,0

0,10,0

10,10,0

10,0,0

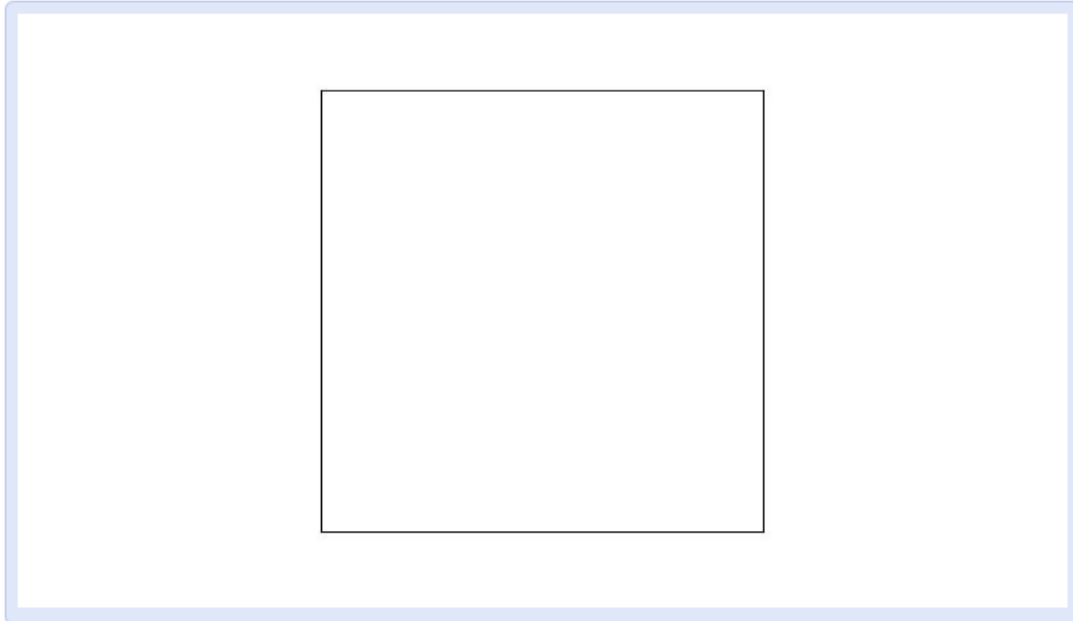
0,0,0

Results

File

Download Generated DXF

Image



1.15 Polyline from polar points

- Basic input data

Start point X: 0

Start point Y: 0

Start point Z: 0

Polar points table

Distance	Angle
----------	-------

10	270
----	-----

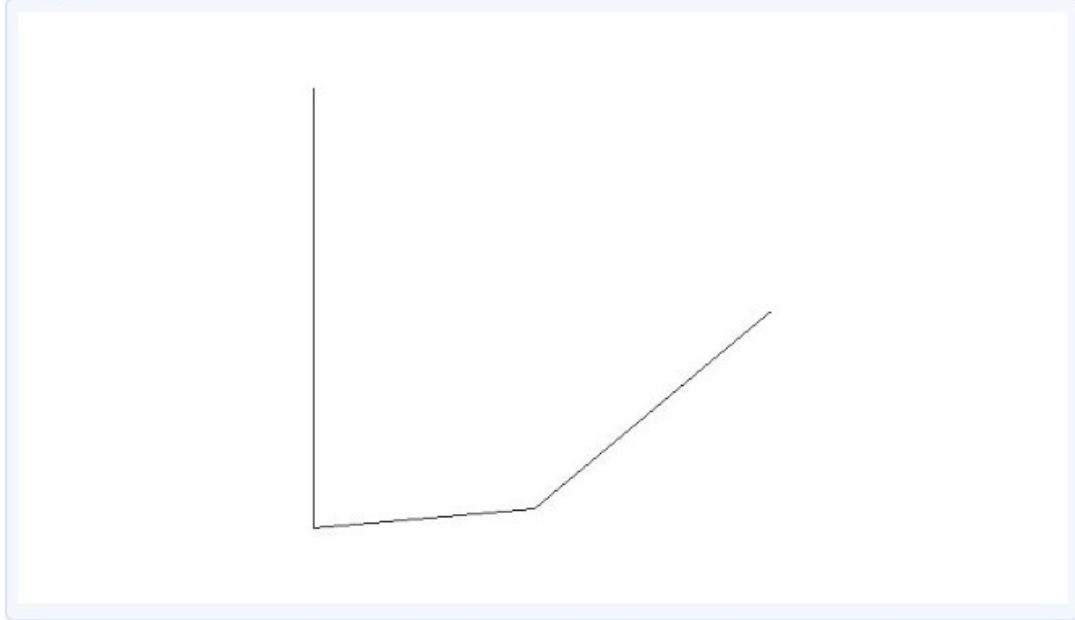
5	5
---	---

Results

File

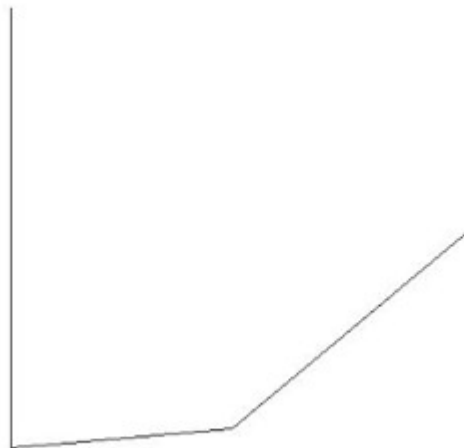
[Download Generated DXF](#)

Image

**1.16 Polyline to curve**

Create a curve from a polyline

Original file:



Example 1

- Basic input data

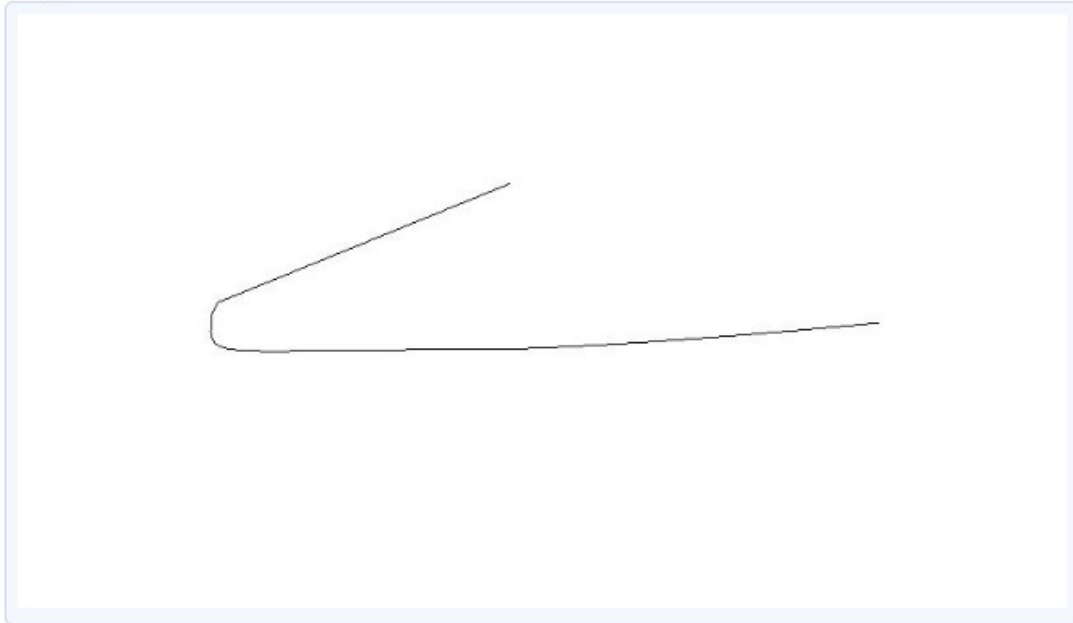
Curve type: Cubic Spline (fixed endpoint)

Results

File

[Download Generated DXF](#)

Image



Example 2

- Basic input data

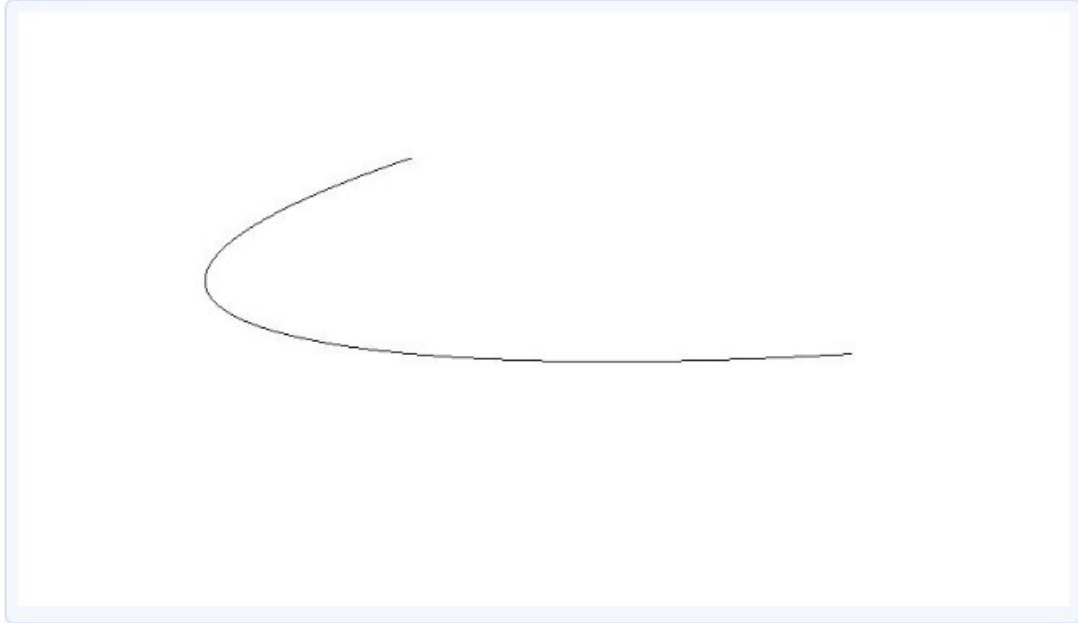
Curve type: Bezier

Results

File

Download Generated DXF

Image



1.17 Rectangle

- Basic input data

Start point X: 0

Start point Y: 0

Start point Z: 0

Width: 10

Height: 5

Results

File

Download Generated DXF

Image



1.18 Regular polygon

- Basic input data

Vertices number: 5

Center point X: 0

Center point Y: 0

Center point Z:

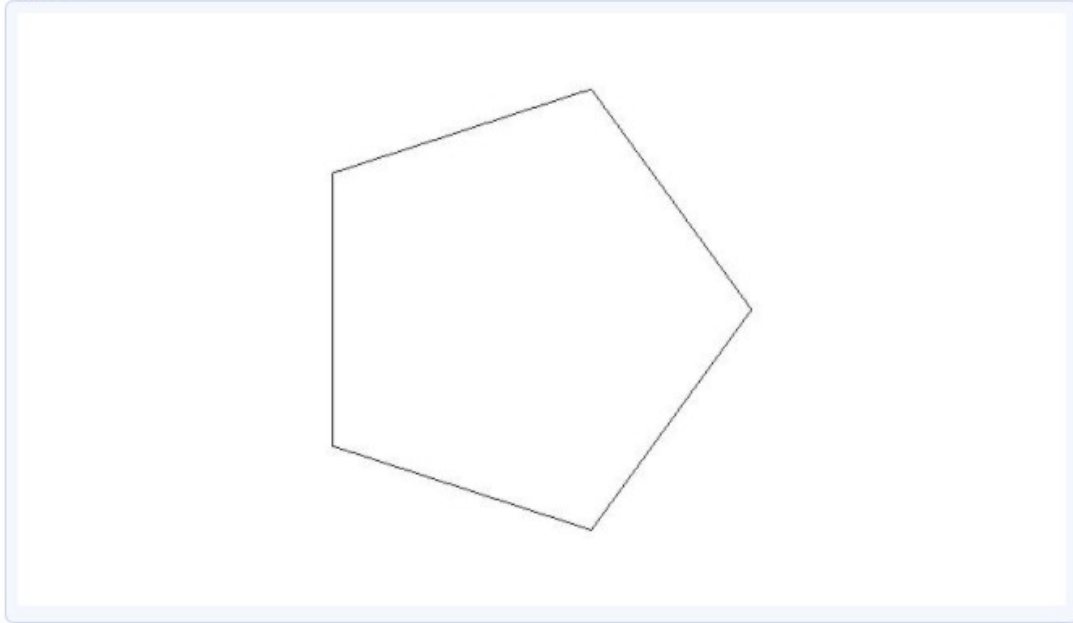
Radius: 5

Results

File

Download Generated DXF

Image



1.19 Repeat

With this app you can repeat a drawing on X and Y axis.

Upload a dxf or dwg file.

Example 1

- Basic input data

X offset: 10

Y offset: 10

Pattern rows: 3

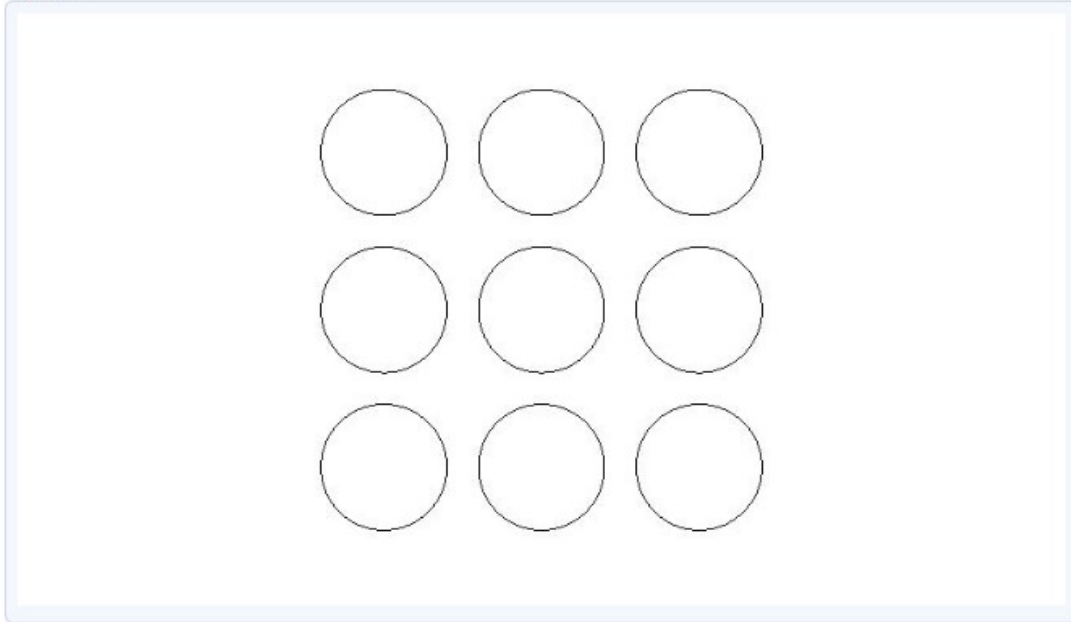
Pattern columns: 3

Results

File

Download Generated DXF

Image



Example 2

- Basic input data

X offset: 1

Y offset: 1

Pattern rows: 3

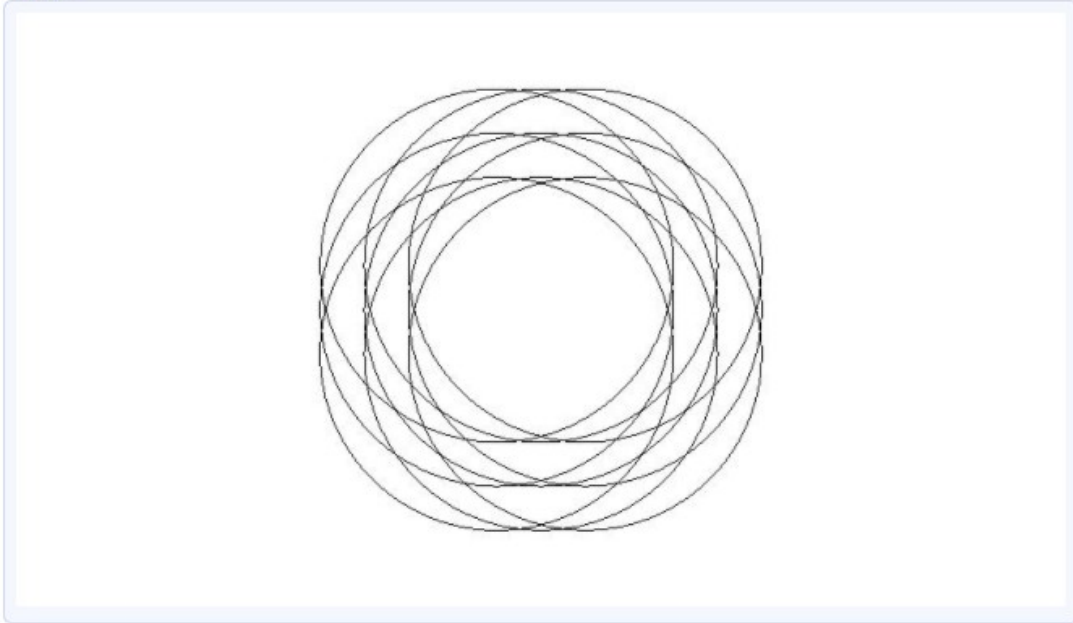
Pattern columns: 3

Results

File

Download Generated DXF

Image



1.20 Text

Create a text

- Basic input data

Text: text for test

Font name: Times New Roman

Start point X: 0

Start point Y: 0

Start point Z: 0

Text height: 3

Convert to lines: No

Results

File

Download Generated DXF

Image

text for test

1.21 Text to curve

Create a text on curve by writing the text and uploading a circle or an arc dxf/dwg file.

- Basic input data

Text: text for test

Font name: Arial

Text height: 1.5

Characters distance: 1

Alignment: Bottom

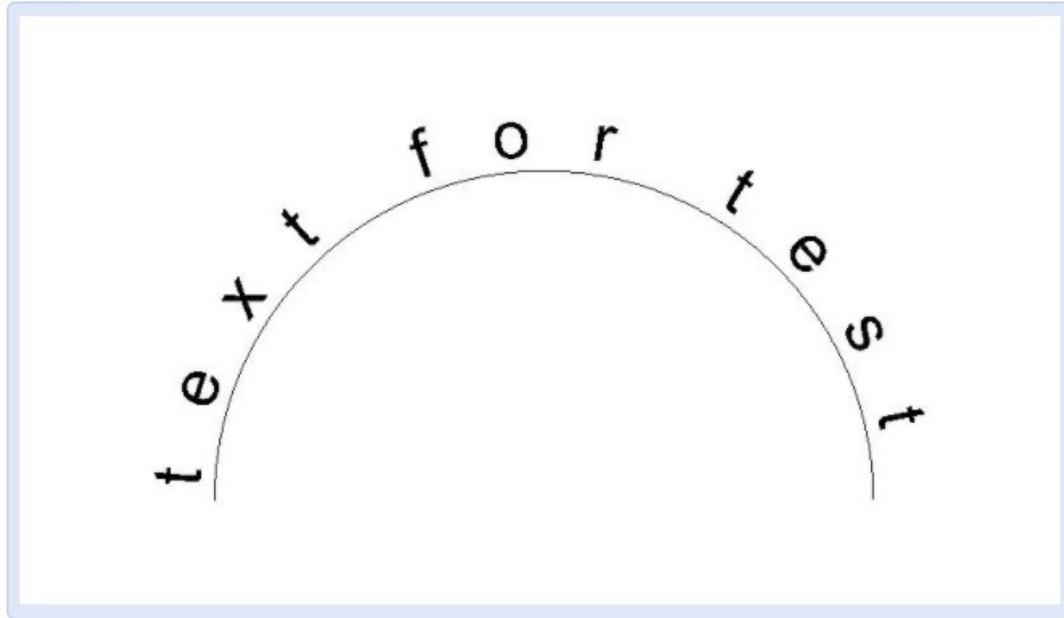
Convert to lines: No

Results

File

Download Generated DXF

Image



1.22 Triangle

The Triangle app allows you to create a triangle with 3 different ways.

1 ABC (side, side, side): By inserting numbers for all three sides.

2 AcB (side, angle, side): By inserting numbers for two of the sides and one angle.

3 bAc (angle, side, angle): By inserting numbers for one of the sides and two angles.

- Basic input data

Triangle type: ABC (side, side, side)

1st parameter: 5

2nd parameter: 5

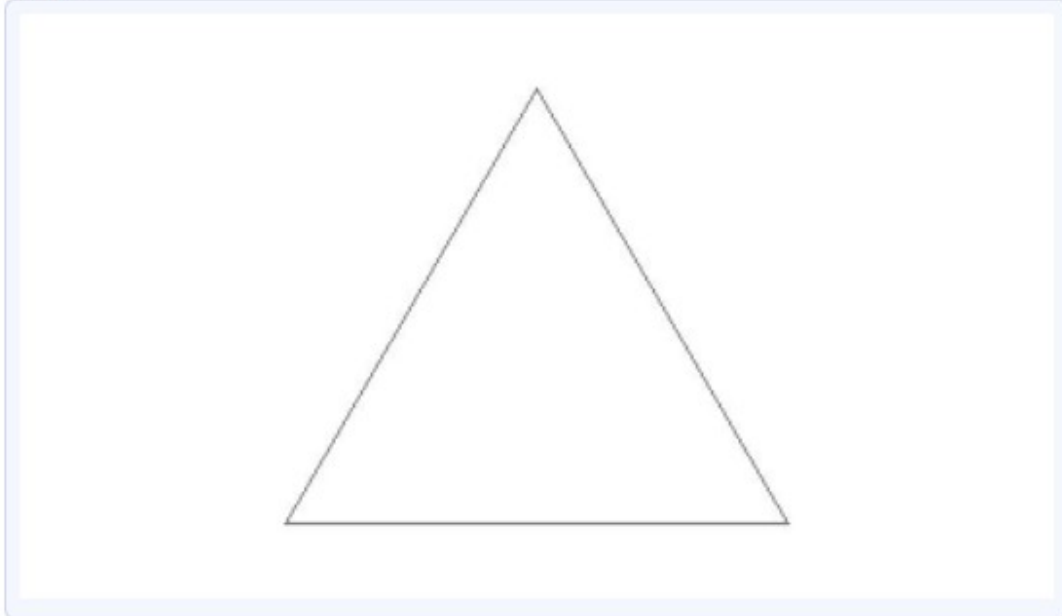
3rd parameter: 5

Results

File

[Download Generated DXF](#)

Image



2. Algorithms

2.1 Points convex envelope

The smallest convex polygon (hull) that contains the points of a file.

Original file:

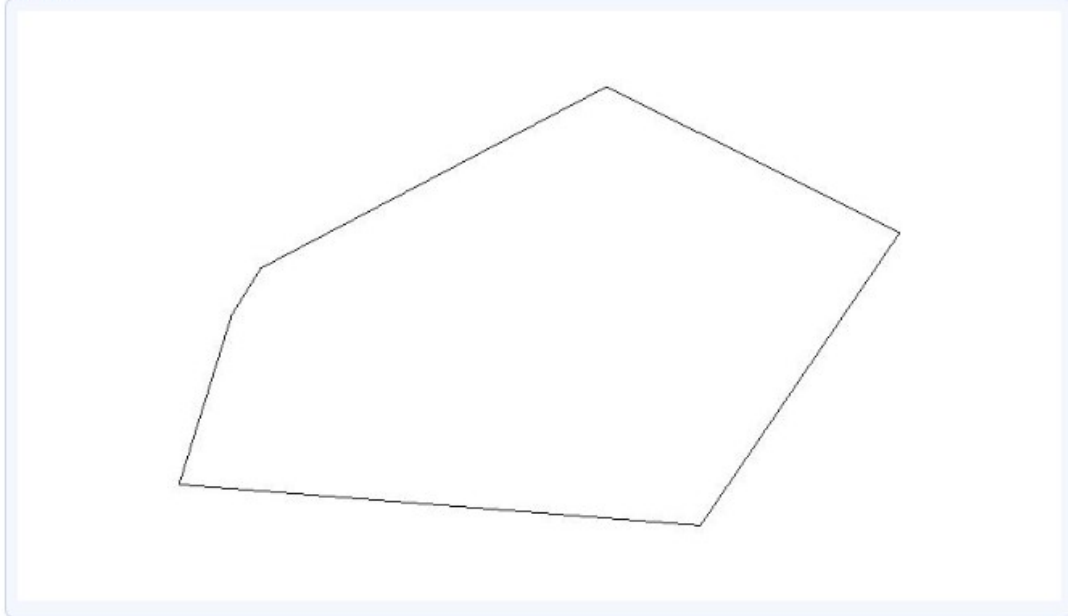


Results

File

Download Generated DXF

Image



2.2 Points shortest possible route (TSP)

Find the shortest possible route of the points from a file (Travelling salesman problem).

Original file:

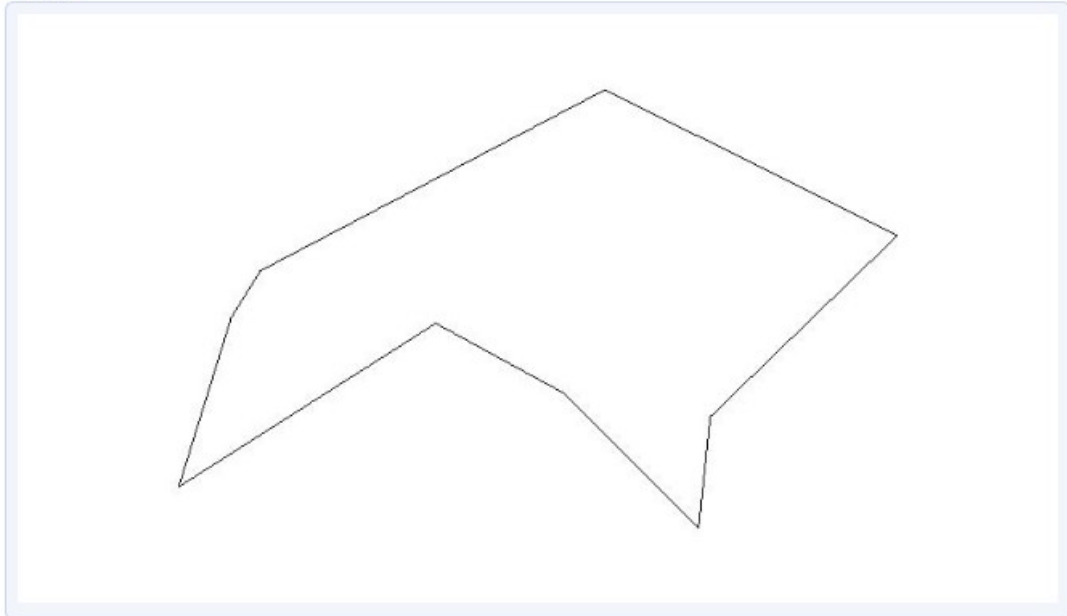


Results

File

Download Generated DXF

Image



3. Print

3.1 Print to PDF

With this app you can export a drawing print in a PDF file.

Example 1

- Basic input data

Paper size type: A4, 210 x 297 mm

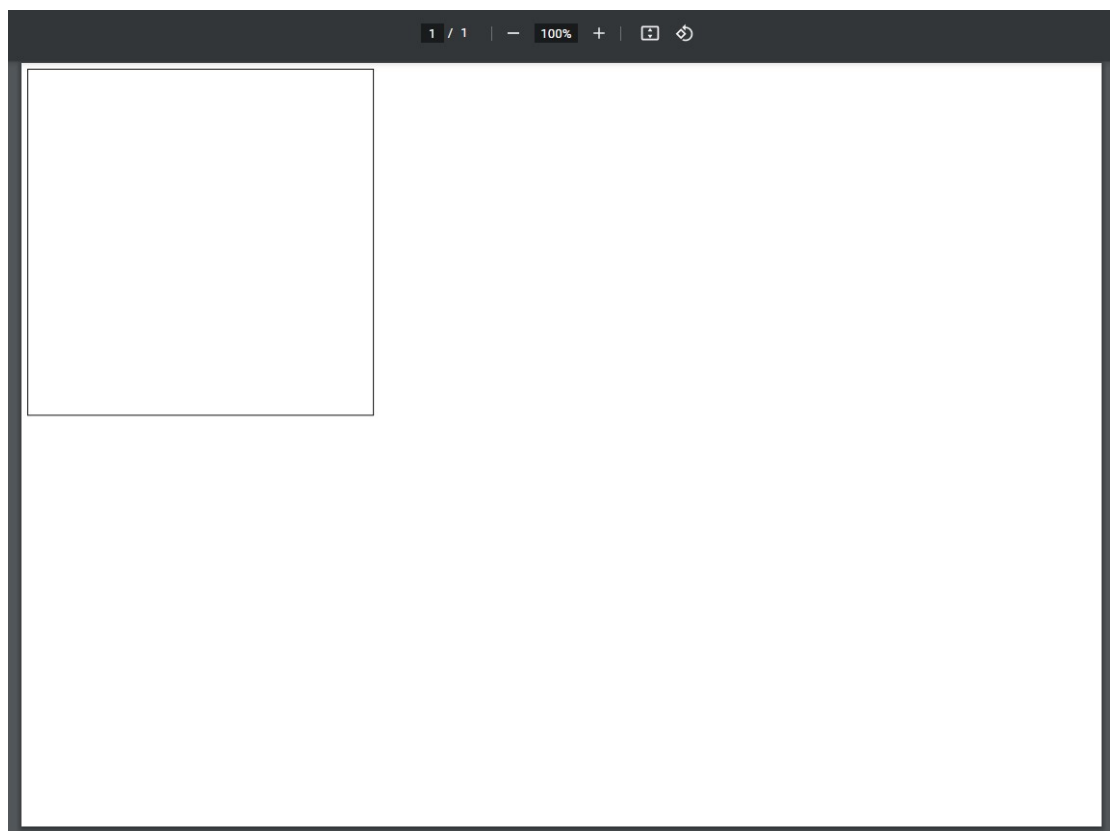
User defined width: 0

User defined height: 0

Scale: 1:100

Fit to page: No

Landscape: Yes



Example 2

- Basic input data

Paper size type: A4, 210 x 297 mm

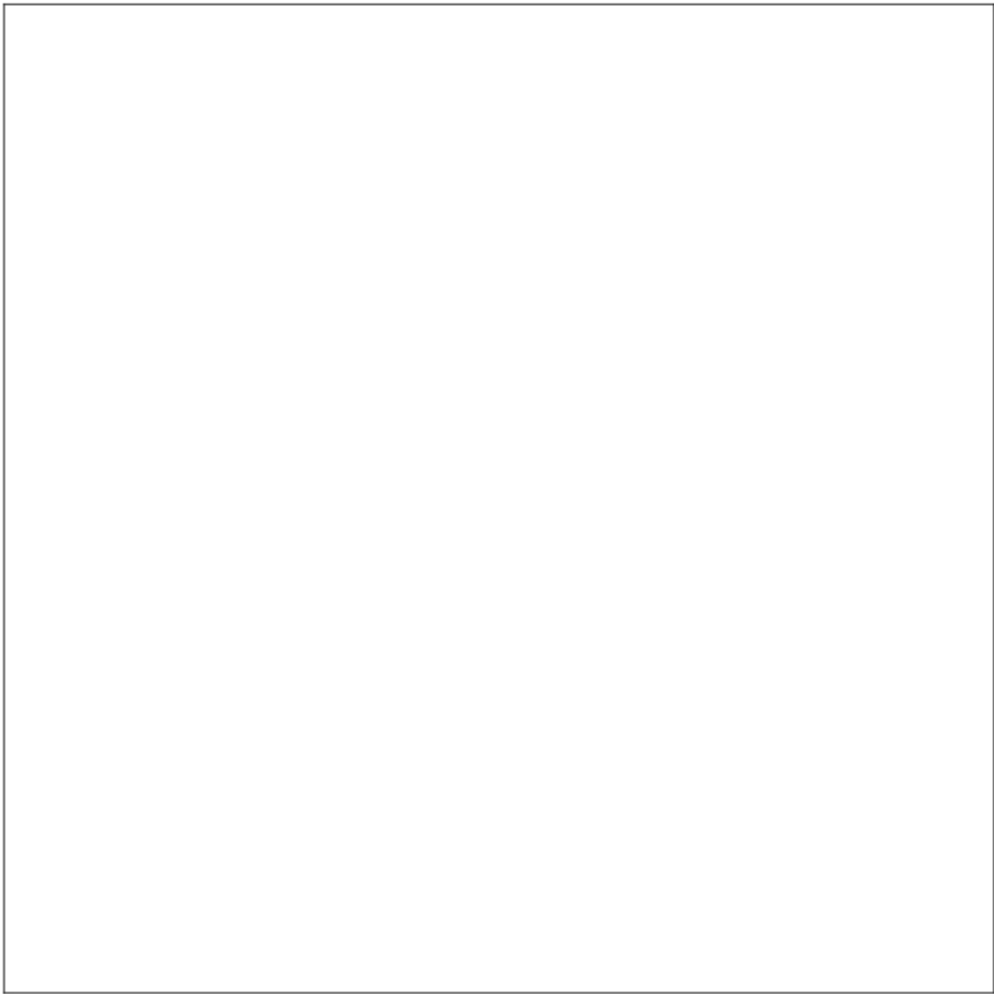
User defined width: 0

User defined height: 0

Scale: 1:100

Fit to page: Yes

Landscape: No



4. Calculations

4.1 Text calculator

This application calculates the arithmetic expressions of each line of one text separately and at the end brings out the sum of them. Operators which are allowed: +, -, *, /, ^ and parentheses (,).

- Basic input data

$100*0.5+87.931*0.14+34.825*0.07+100*0.05$

$5+5$

Results

$100*0.5+87.931*0.14+34.825*0.07+100*0.05 = 69.74809$

$5+5 = 10$

$69.74809+10 = 79.74809$

5. AI Tools


5.1 AI Text detection in image

This app detects automatically text in image using artificial intelligence (AI) technology.

Original file:

 ai_tools

AI Text detection in image

 Compare

Compare DXF

Compare images

Compare texts

Results:

Results

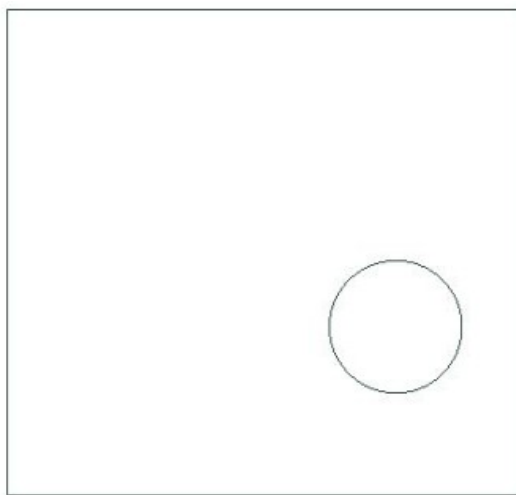
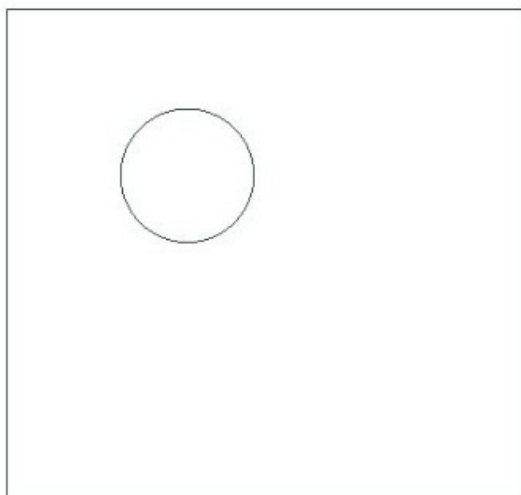
ai_tools
AI Text detection in image
Compare
Compare DXF
Compare images
Compare texts

6. Compare

6.1 Compare DXF

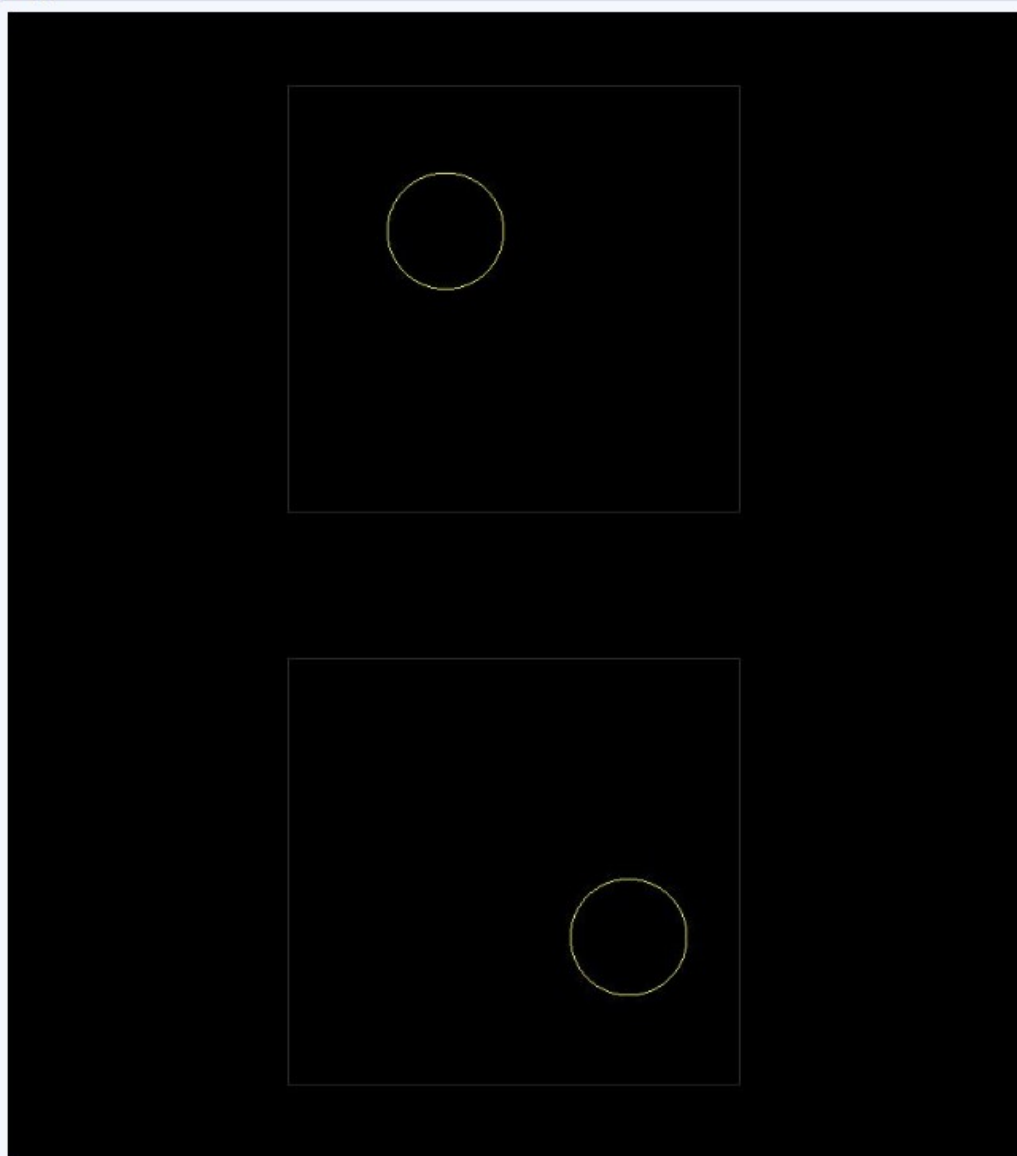
Compare DXF files.

Original file:



Results

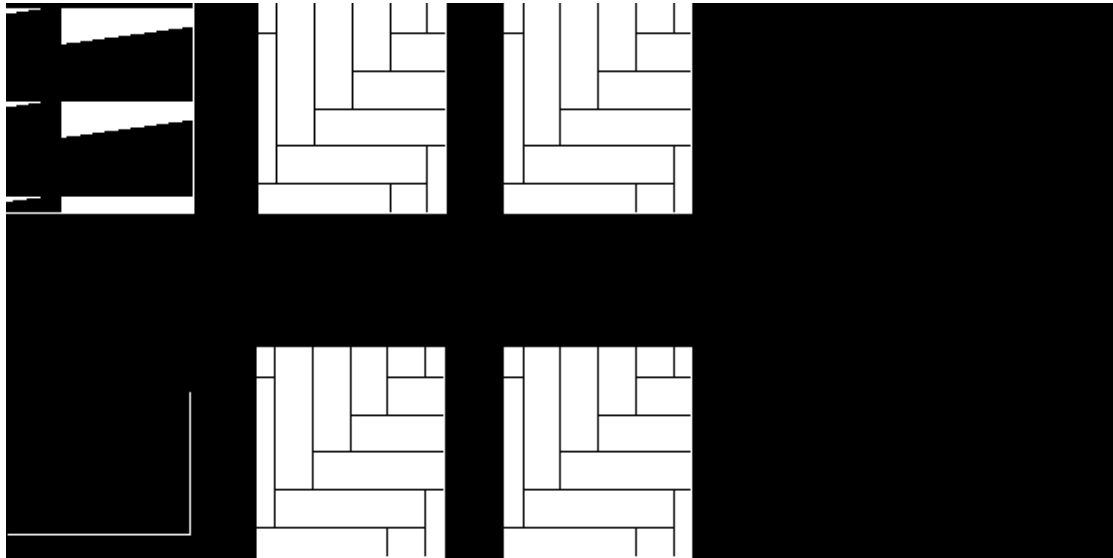
Image



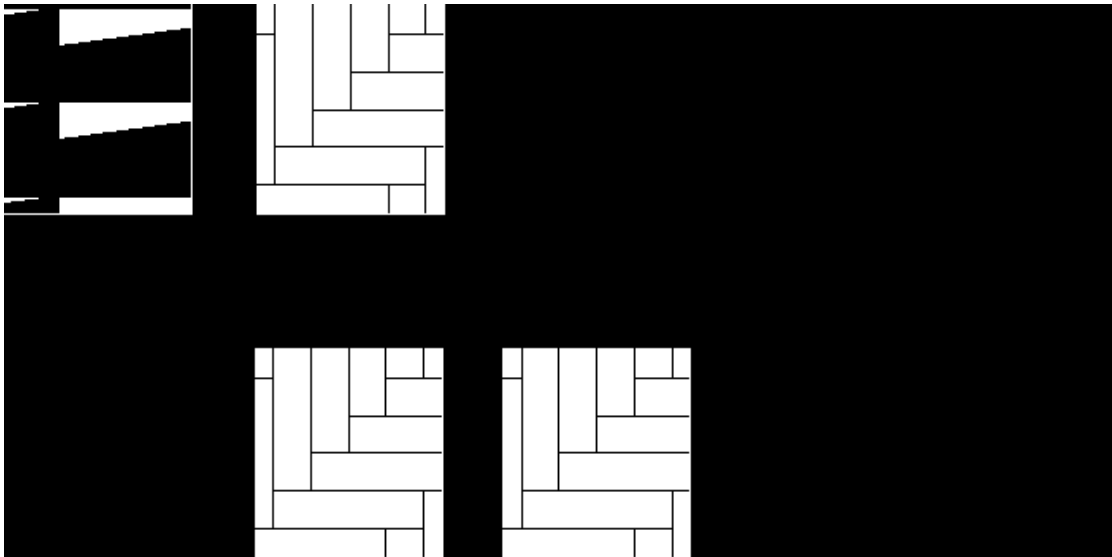
6.2 Compare images

Compare image and drawing files.

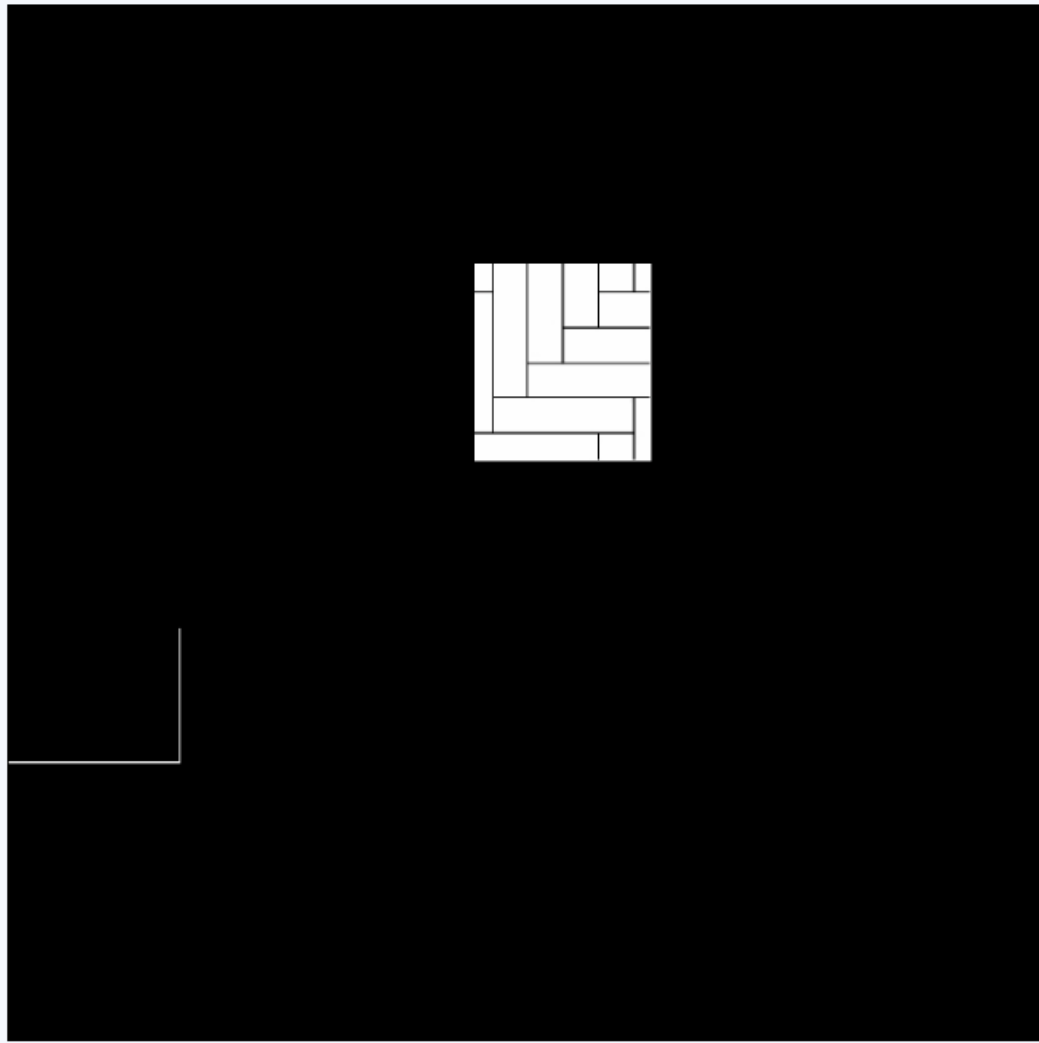
First image:



Second image:



Image



6.3 Compare texts

With this app you can compare two texts.


- Basic input data


1st text: With this app you can compare two texts

2nd text: With this app you can compare five texts

Results:

Results

With this app you can compare  texts

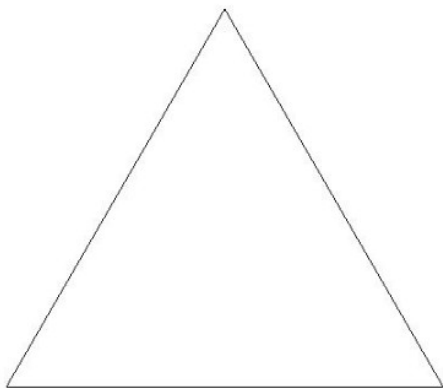
With this app you can compare  texts

7. Manipulate

7.1 Mirror

With this app you can mirror a part.

Original file:



- Basic input data

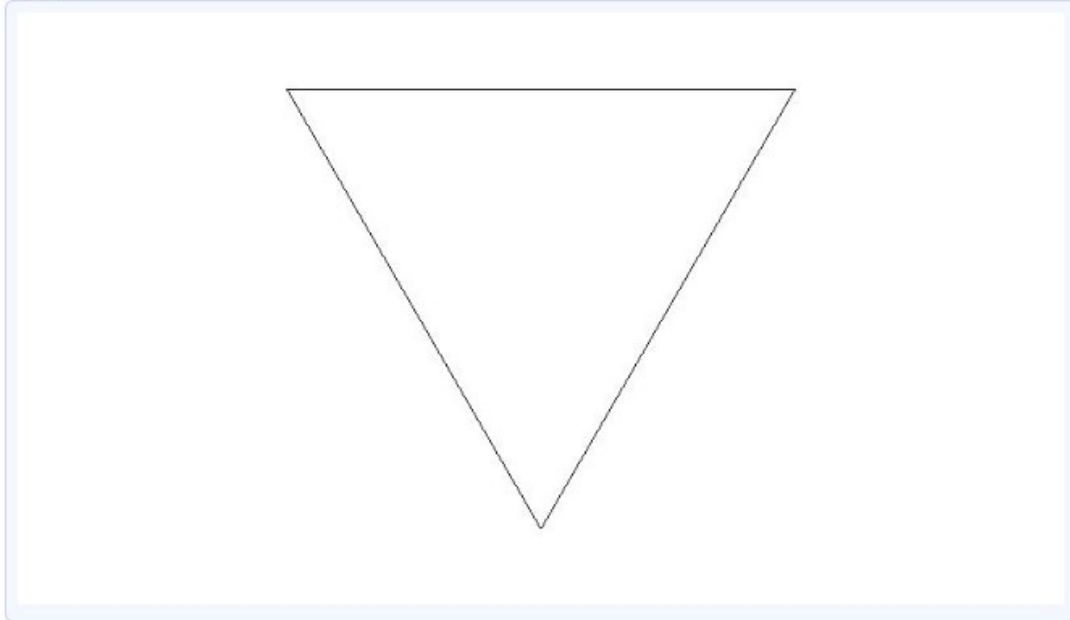
Mirror axis: X axis

Results

File

Download Generated DXF

Image



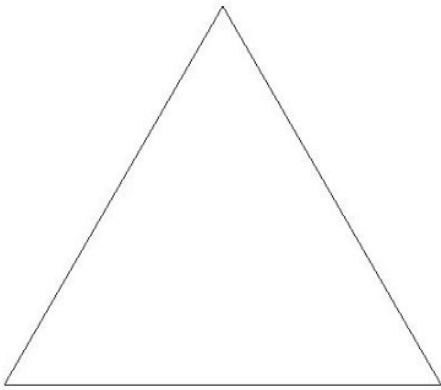
7.2 Move

With this app you can move a drawing by inserting x,y and z distances.

7.3 Rotate

With this app you can rotate a drawing.

Original file:



- Basic input data

Angle: 45

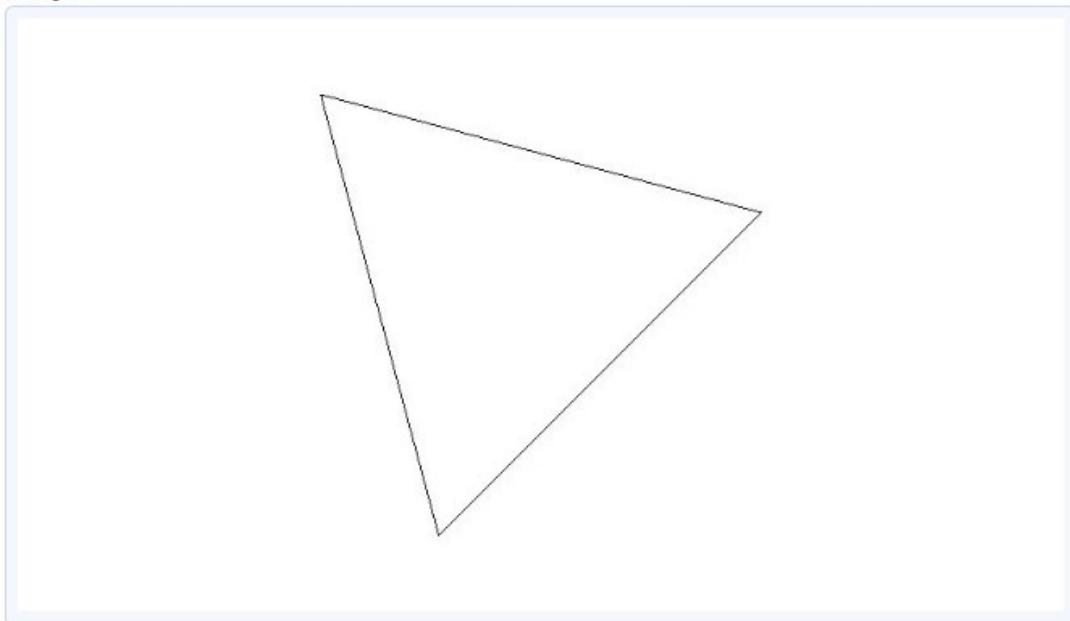
Rotate axis: Z axis

Results

File

Download Generated DXF

Image



7.4 Scale

With this app you can scale a drawing by a scale factor.

8. Convert

8.1 Convert SPLINE to POLYLINE

With this app you can convert the SPLINEs of a drawing file to POLYLINEs.

8.2 Convert to DXF

With this app you can convert EPS, AI, SVG, AVX and PLT files to DXF files.

8.3 Convert to SVG

With this app you can convert EPS, AI, DXF, AVX and PLT files to SVG files.

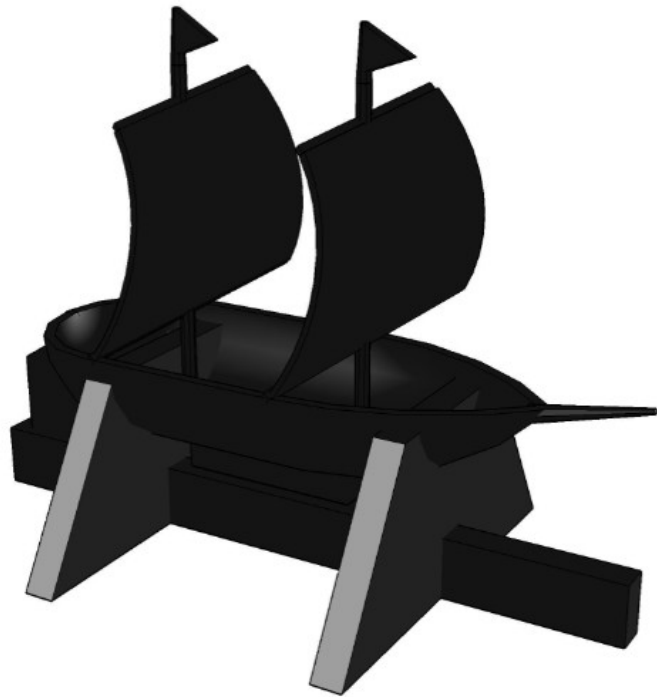
8.4 Drawing files converter

With this app you can convert DXF, DWG, STL, IGES, IGS, STEP, STP, IFC, IFCZIP, ASC, OBJ, LAS, 3DS files to DXF, DWG, STL, IGES, IGS, STEP, STP, PDF files.

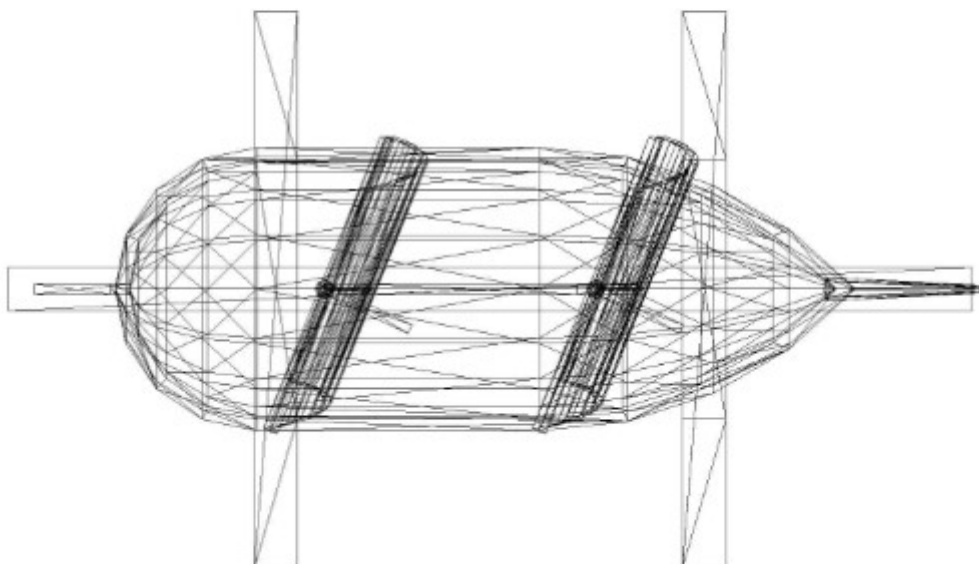
8.5 Flatten

Flatten 3D file.

Original file:



Result:



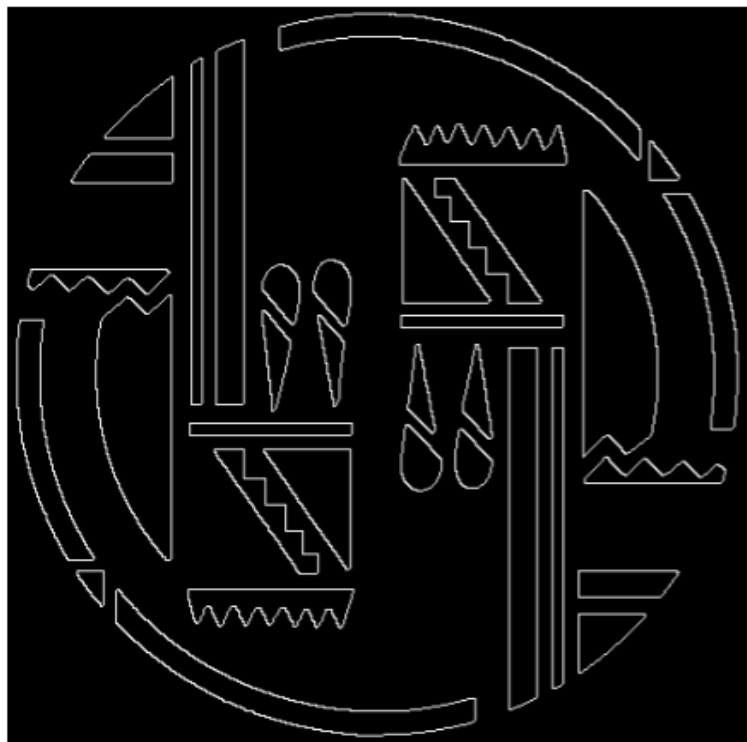
8.6 Image files converter

With this app you can convert JPEG, JPG, BMP, WMF, GIF, PNG, ICO, TIFF, EMF, RLE files to same, JPEG, JPG, BMP, GIF, PNG, TIFF, RLE files.

8.7 Raster to vector

The Raster to vector app takes digital picture and makes into a shape.

Original file:



- Basic input data

Outline = No

Smooth = Yes

Smooth factor = 0

Connect = Yes

Connect factor = 0

Clean = Yes

Clean factor = 0

Result:



8.8 Zip files

With this app you can zip files.

9. View

9.1 View DXF

Upload and view a DXF or DWG file.

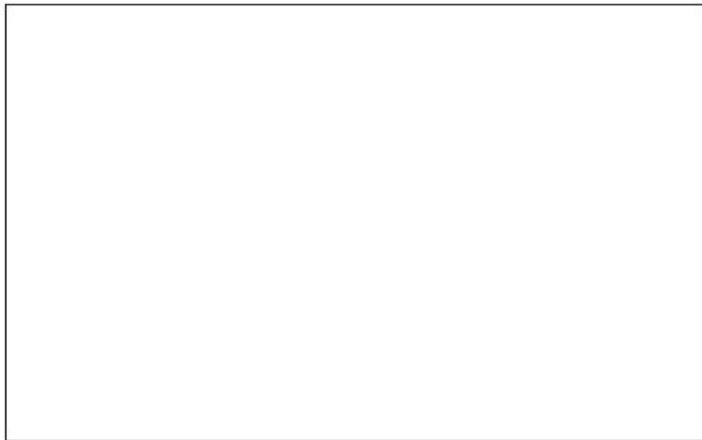
10. Info

10.1 Area

This app can calculate the area of a 2D shape.

Original file:

Width 8, Height 5



Results

Area = 40

10.2 Length

This app can calculate the length of a 2D shape.

Original file:

width 8, height 5



Results

Length = 26