

Modelação Geométrica e Generativa

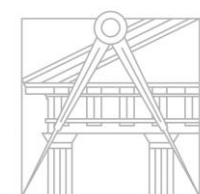
20191258



NOME E APELIDOS DO ALUNO

U LISBOA

UNIVERSIDADE
DE LISBOA



FACULDADE DE ARQUITETURA
UNIVERSIDADE DE LISBOA

MGeG

Mestrado Integrado em Arquitectura
Ano Lectivo 2022-2023 1º Semestre
Docente - Nuno Alão 4º Ano

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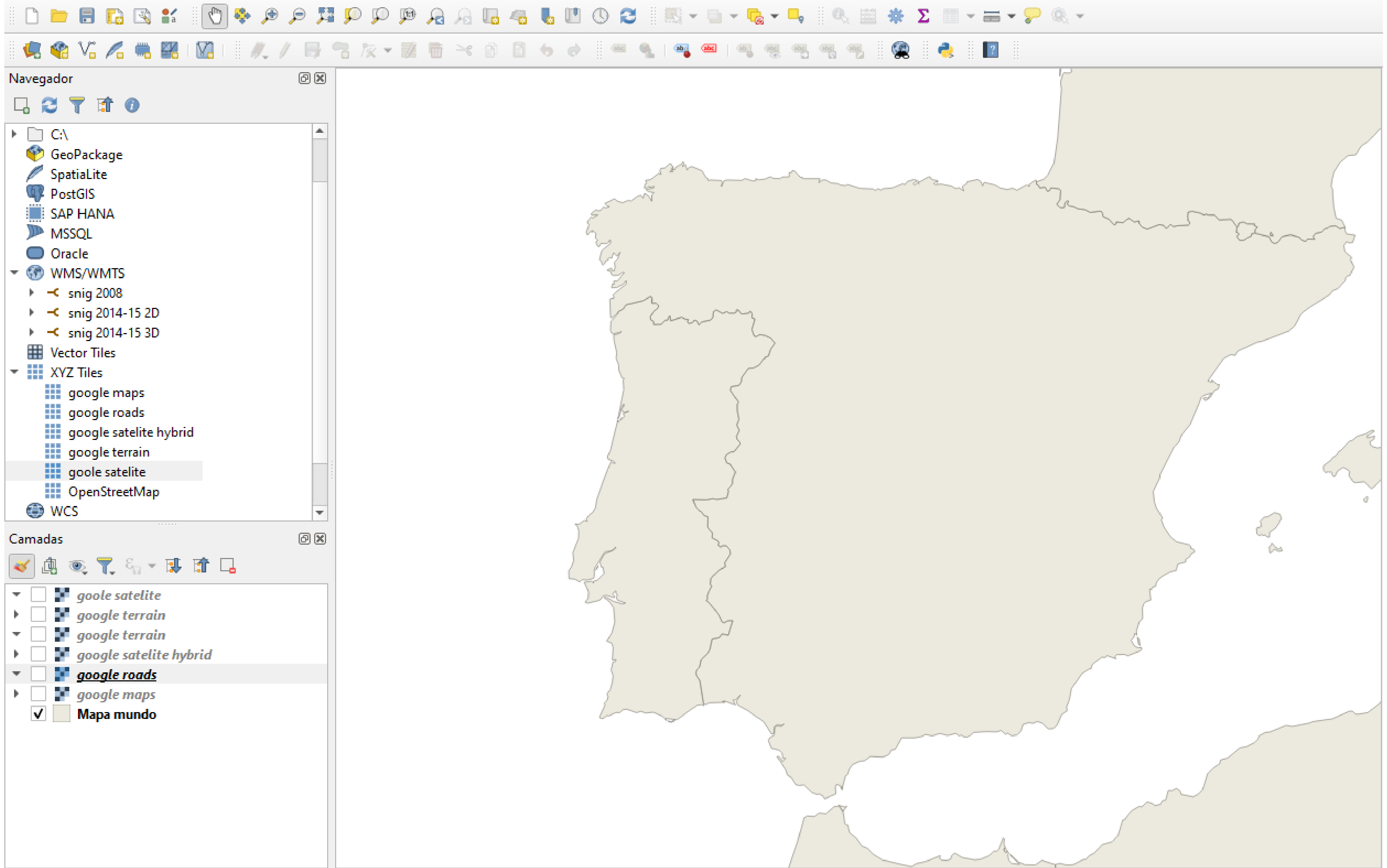
6 – CORAIS

6.1 – CORAL ESPINHOSO

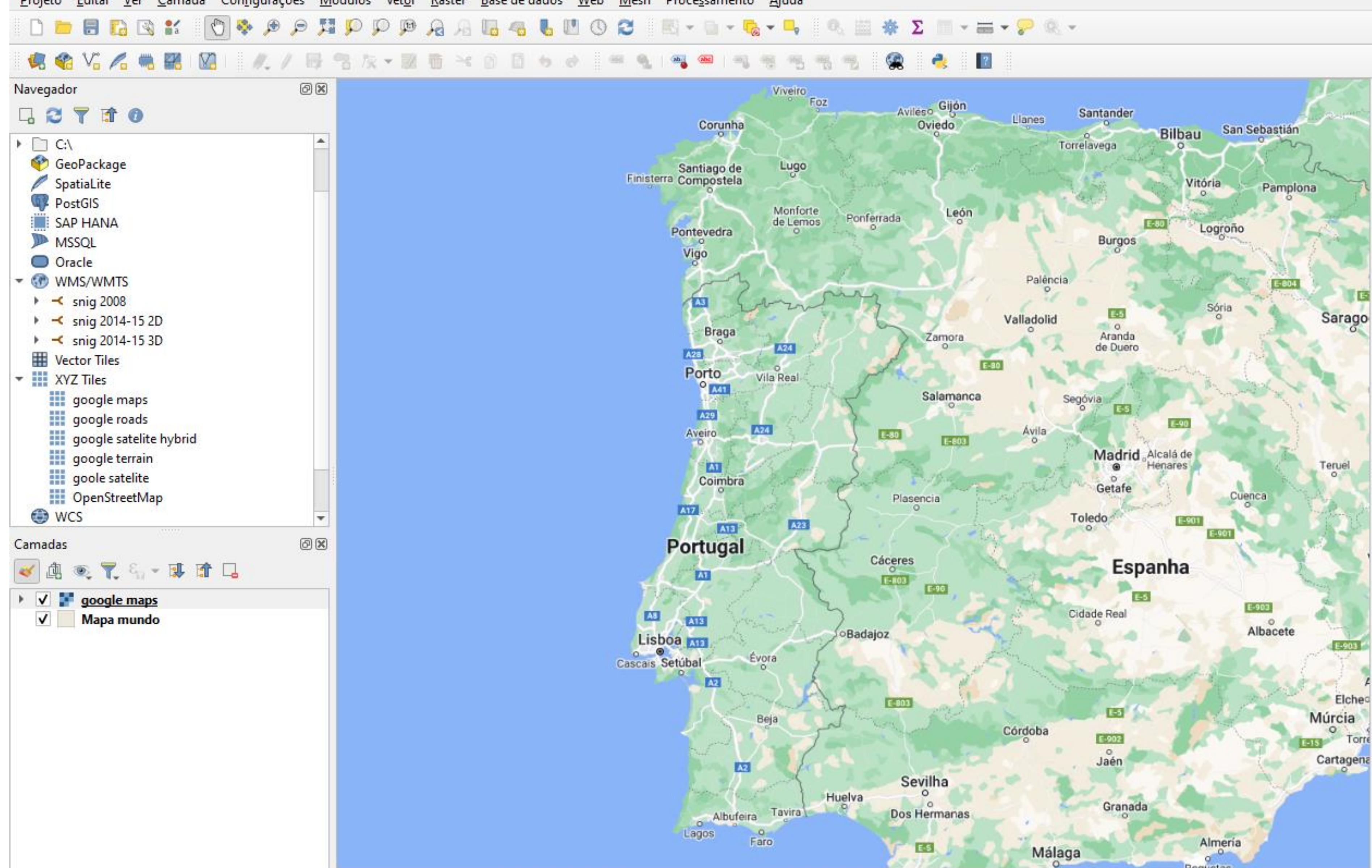
6.2 – CORAL TENTACULAR

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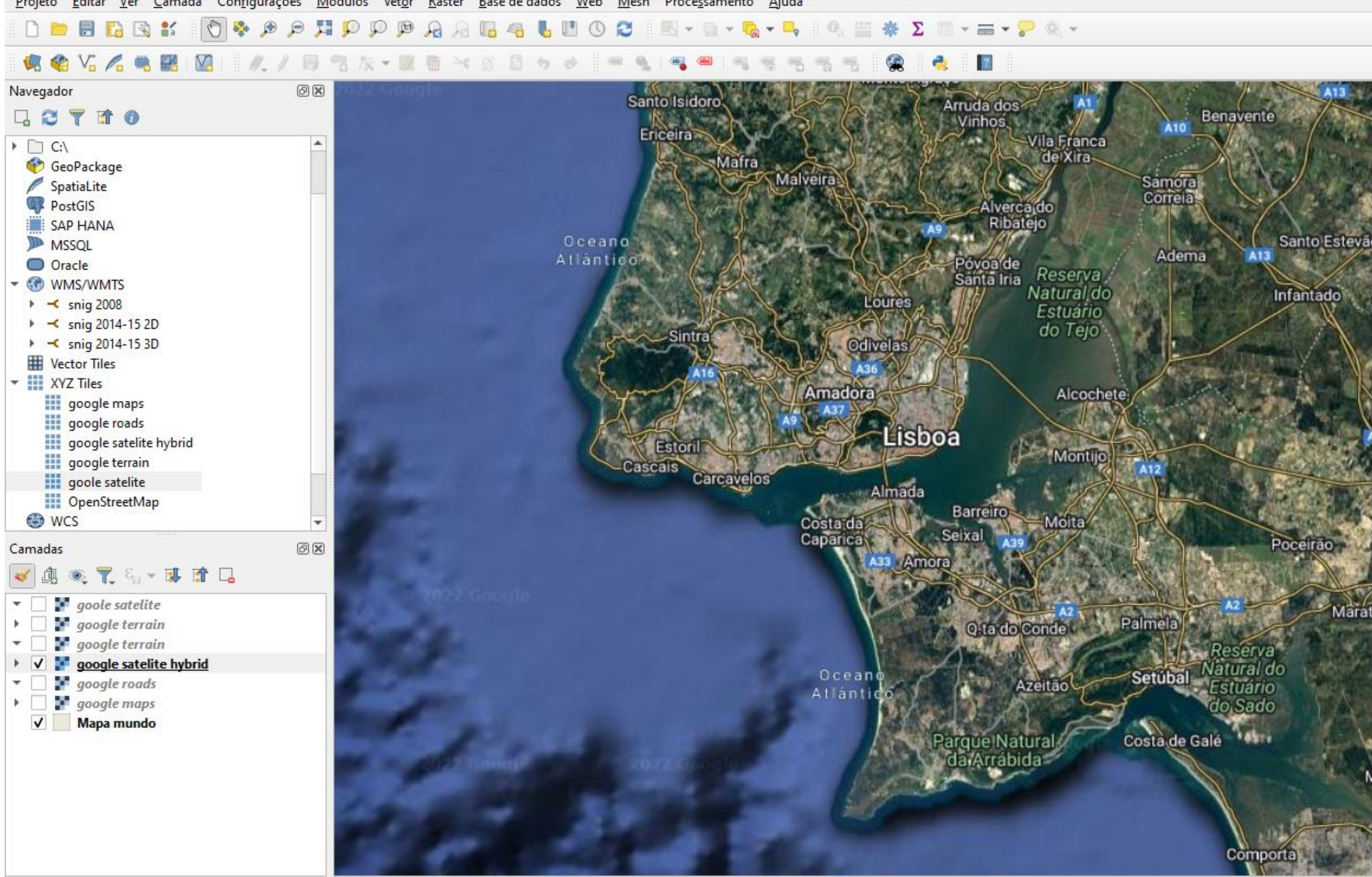
6.5 – CORAL ESFÉRICO



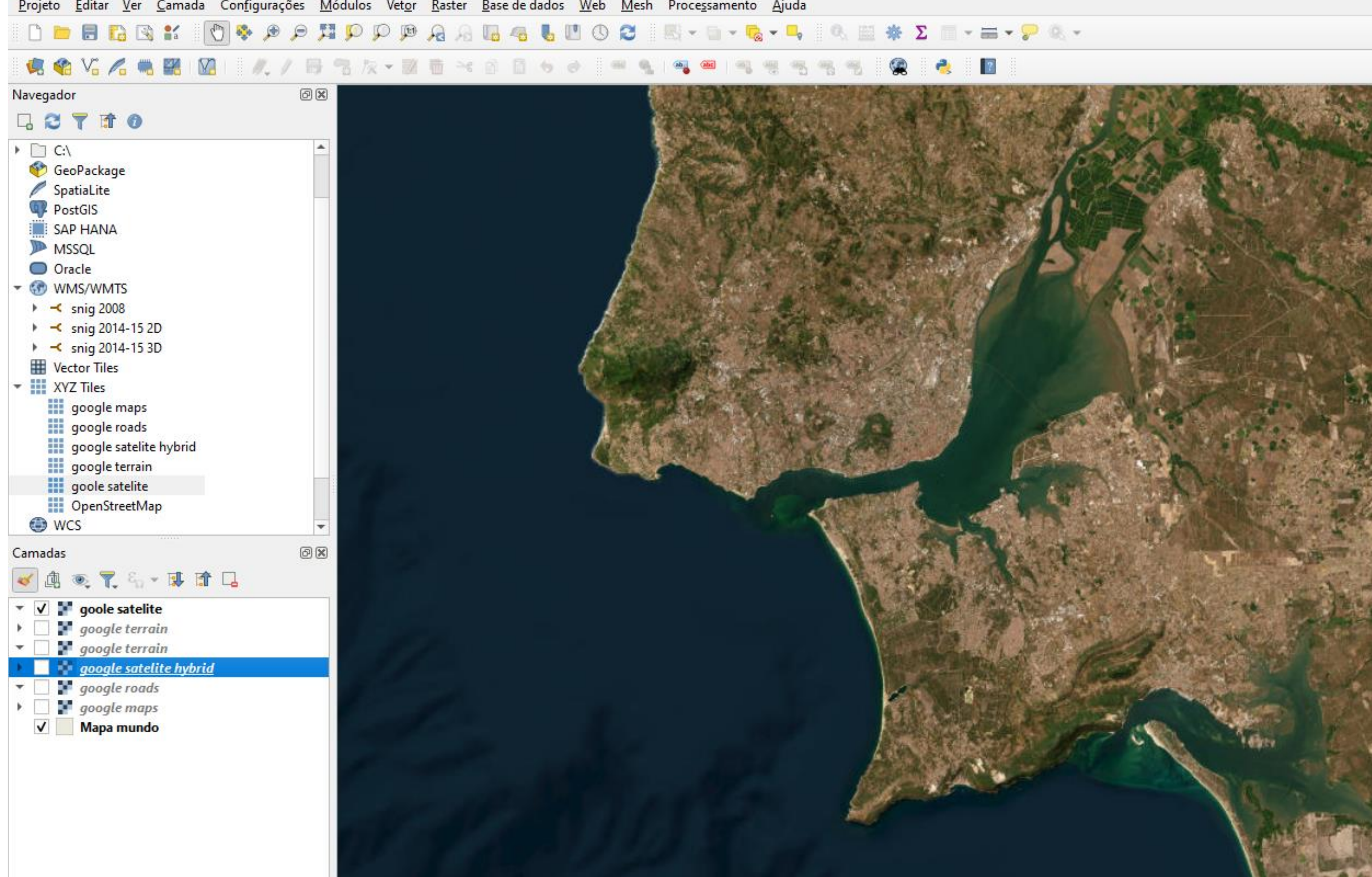
Exerc. 1.1 – QGIS



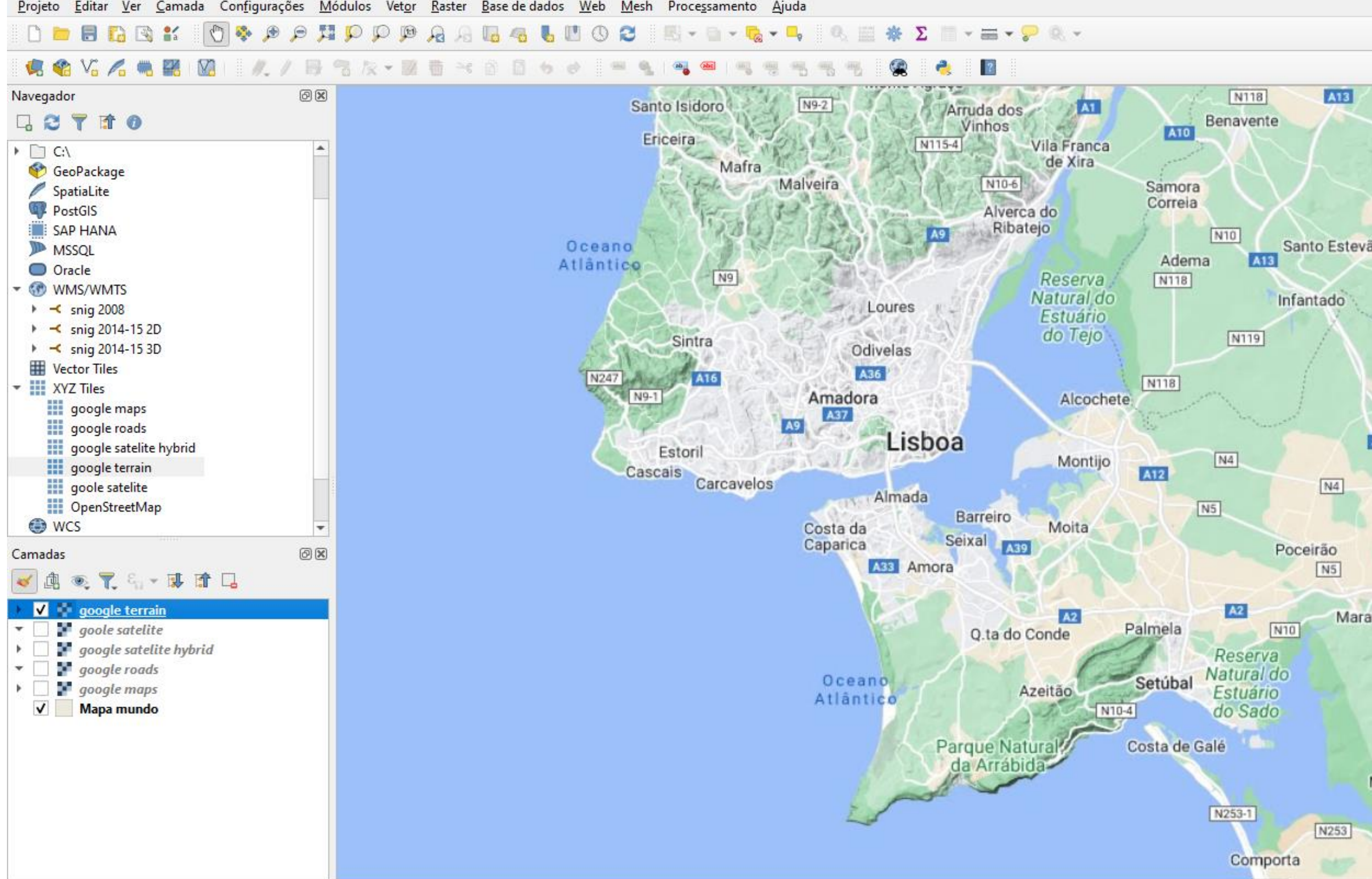
Exerc. 1.1 – QGIS



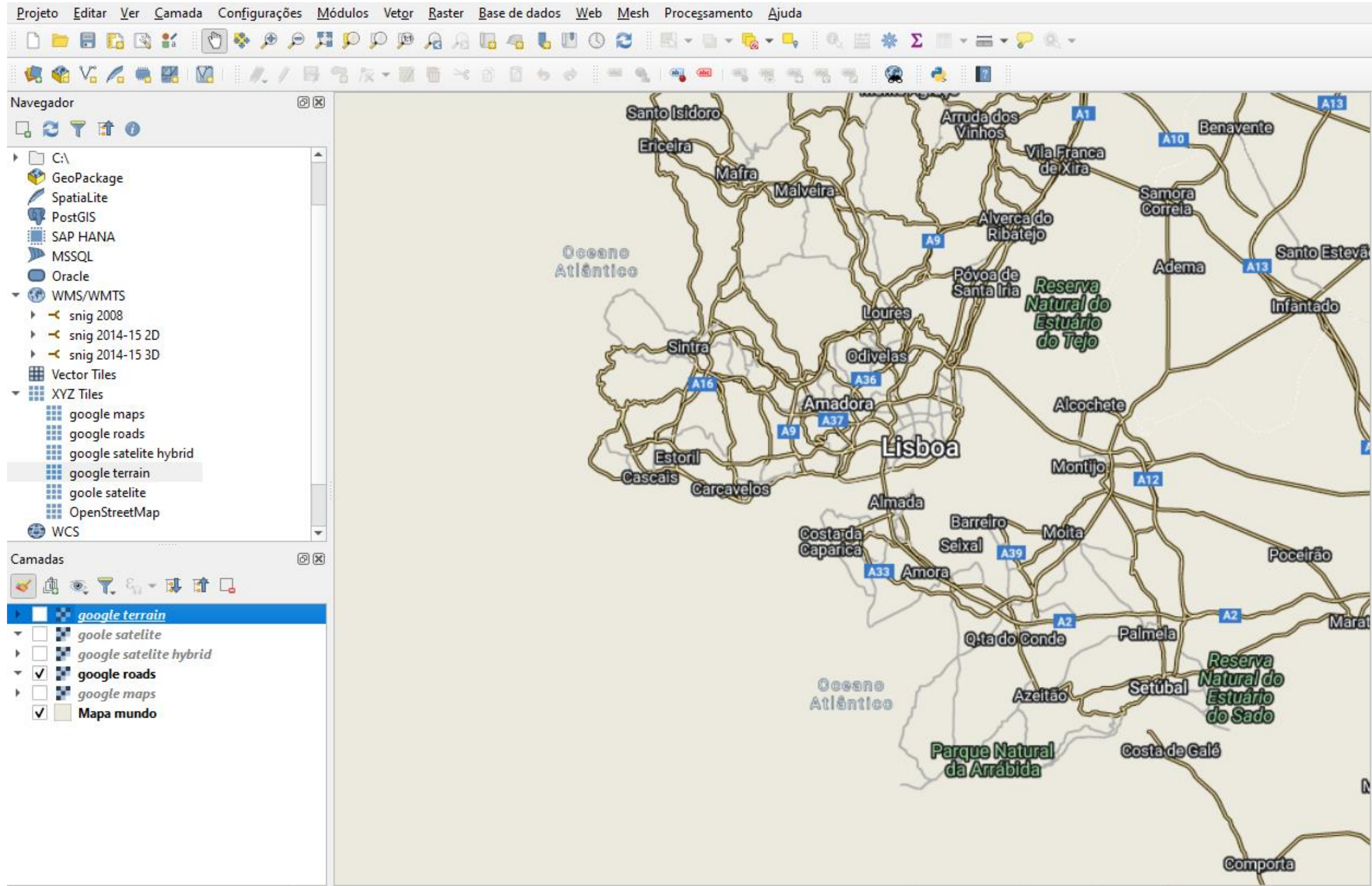
Exerc. 1.1 – QGIS



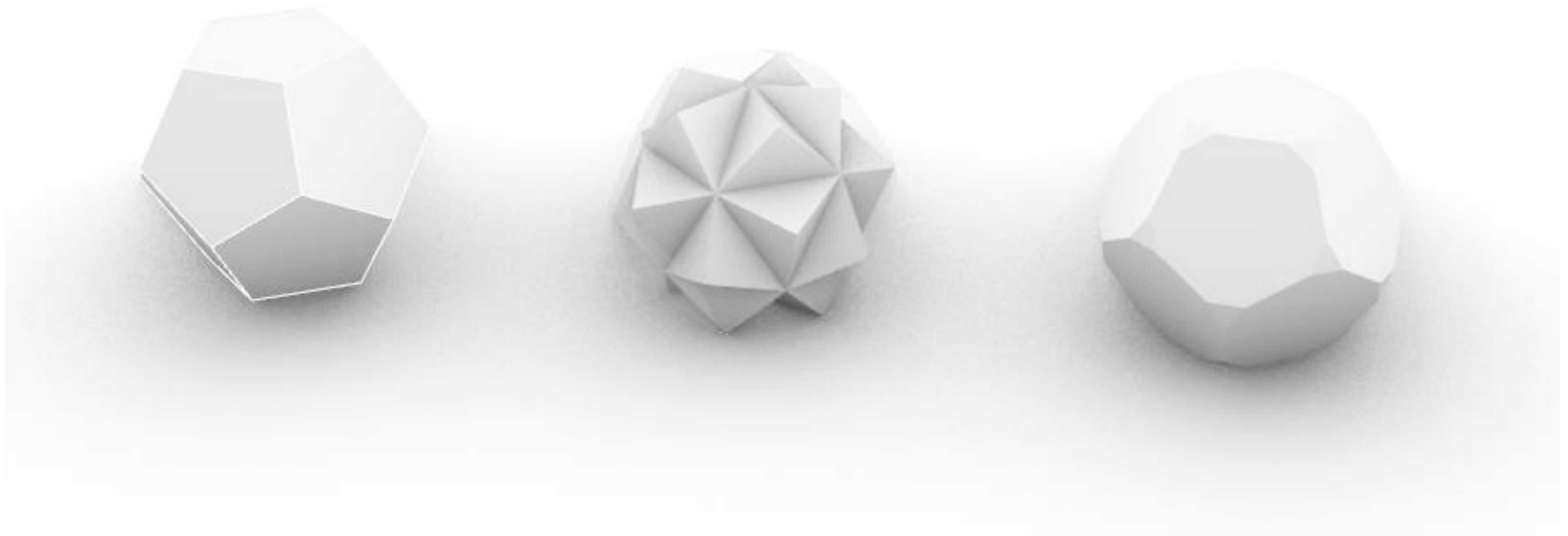
Exerc. 1.1 – QGIS



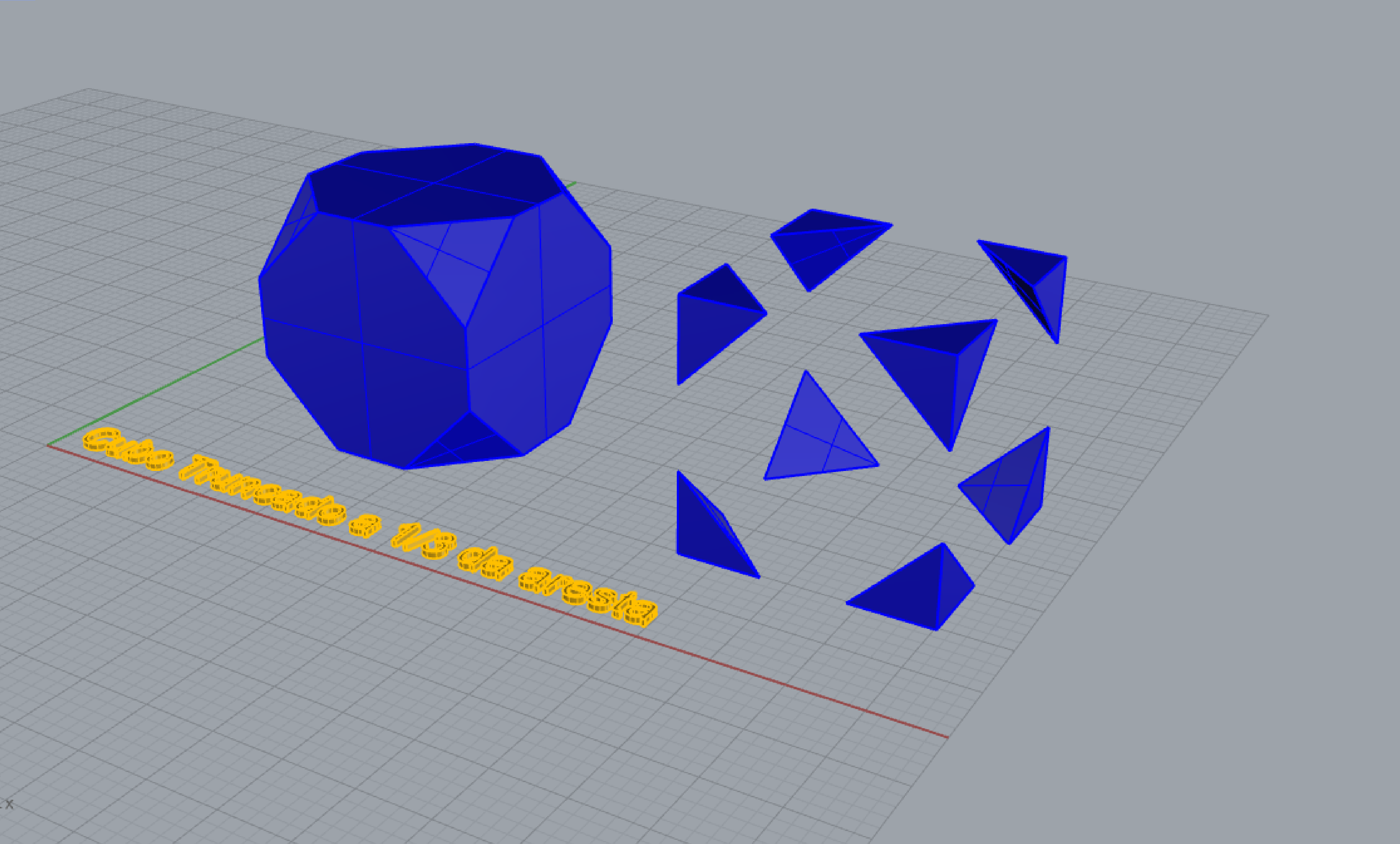
Exerc. 1.1 – QGIS



Exerc. 1.1 – QGIS



Exerc. 2.1 - POLIEDROS



Viewport

Title	Perspective
Width	1182
Height	691
Projection	Perspective
Locked	<input type="checkbox"/>

Camera

Lens Length(mm)	50.0
Rotation	0.0
X Location	98.086
Y Location	-77.887
Z Location	58.541
Distance to Target	122.919
Location	Place...

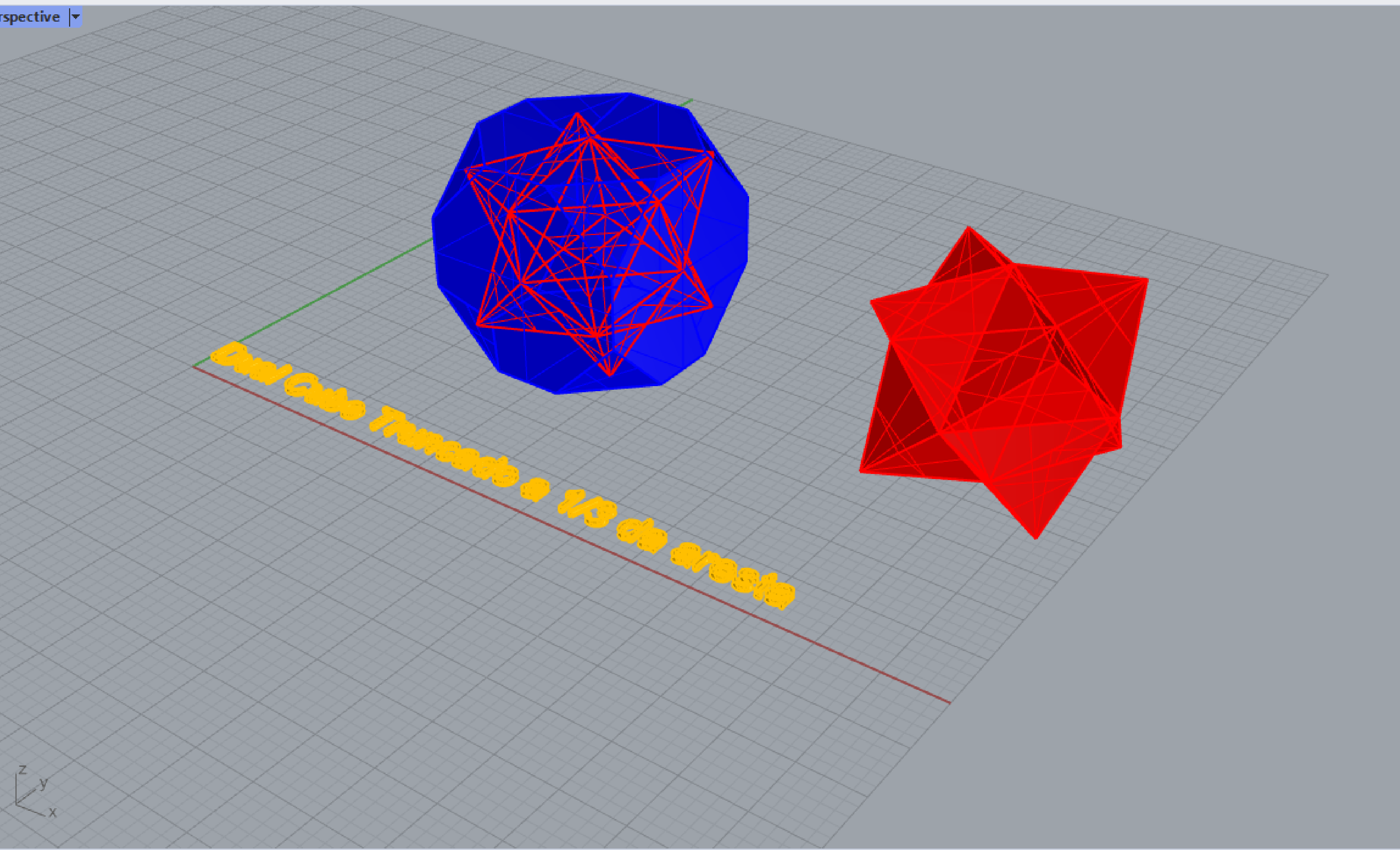
Target

X Target	41.612
Y Target	17.608
Z Target	5.623
Location	Place...

Wallpaper

Filename	(none)
Show	<input checked="" type="checkbox"/>
Gray	<input checked="" type="checkbox"/>

Exerc. 2.1.1 – CUBO TRUNCADO

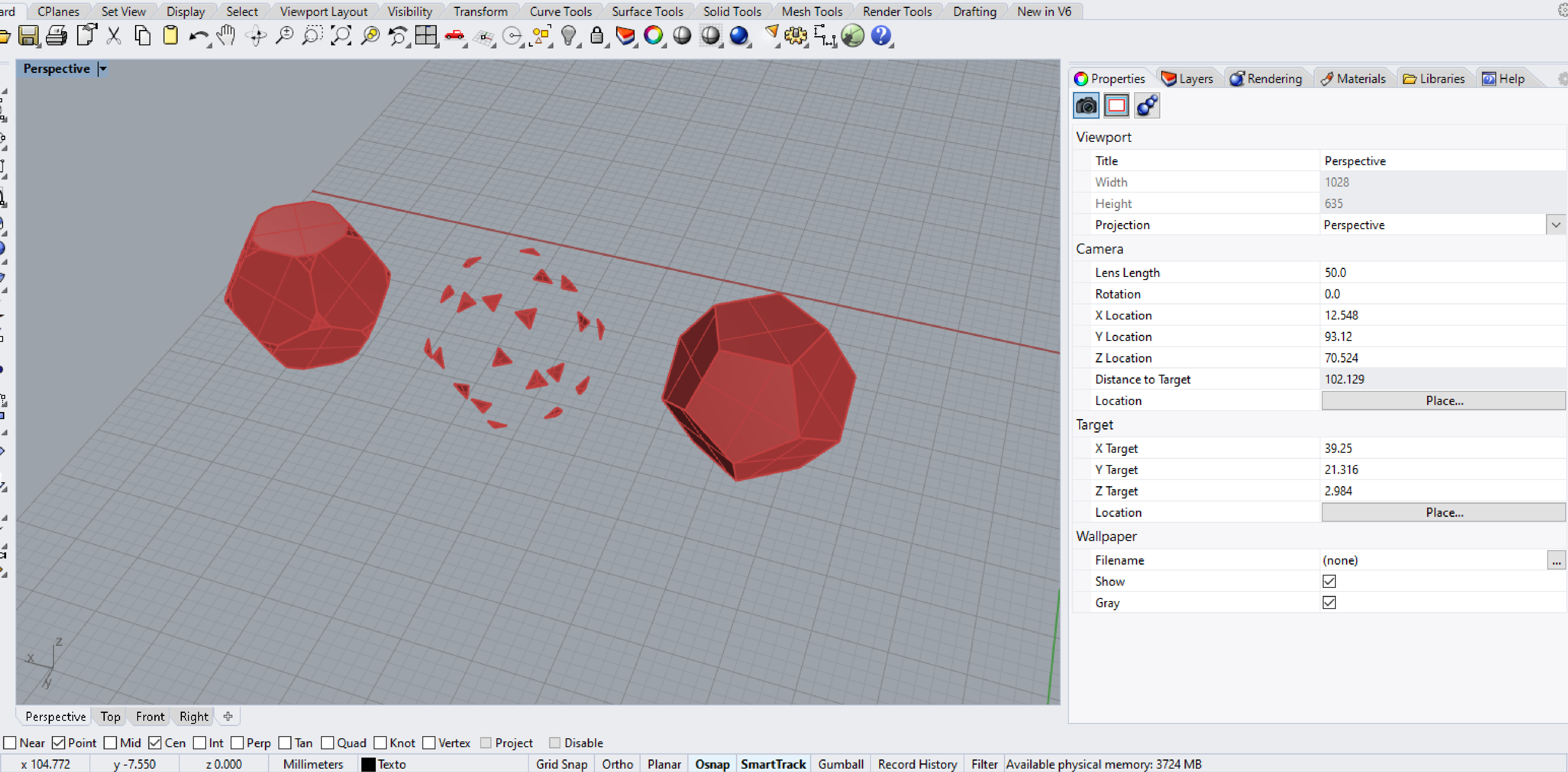


Layers

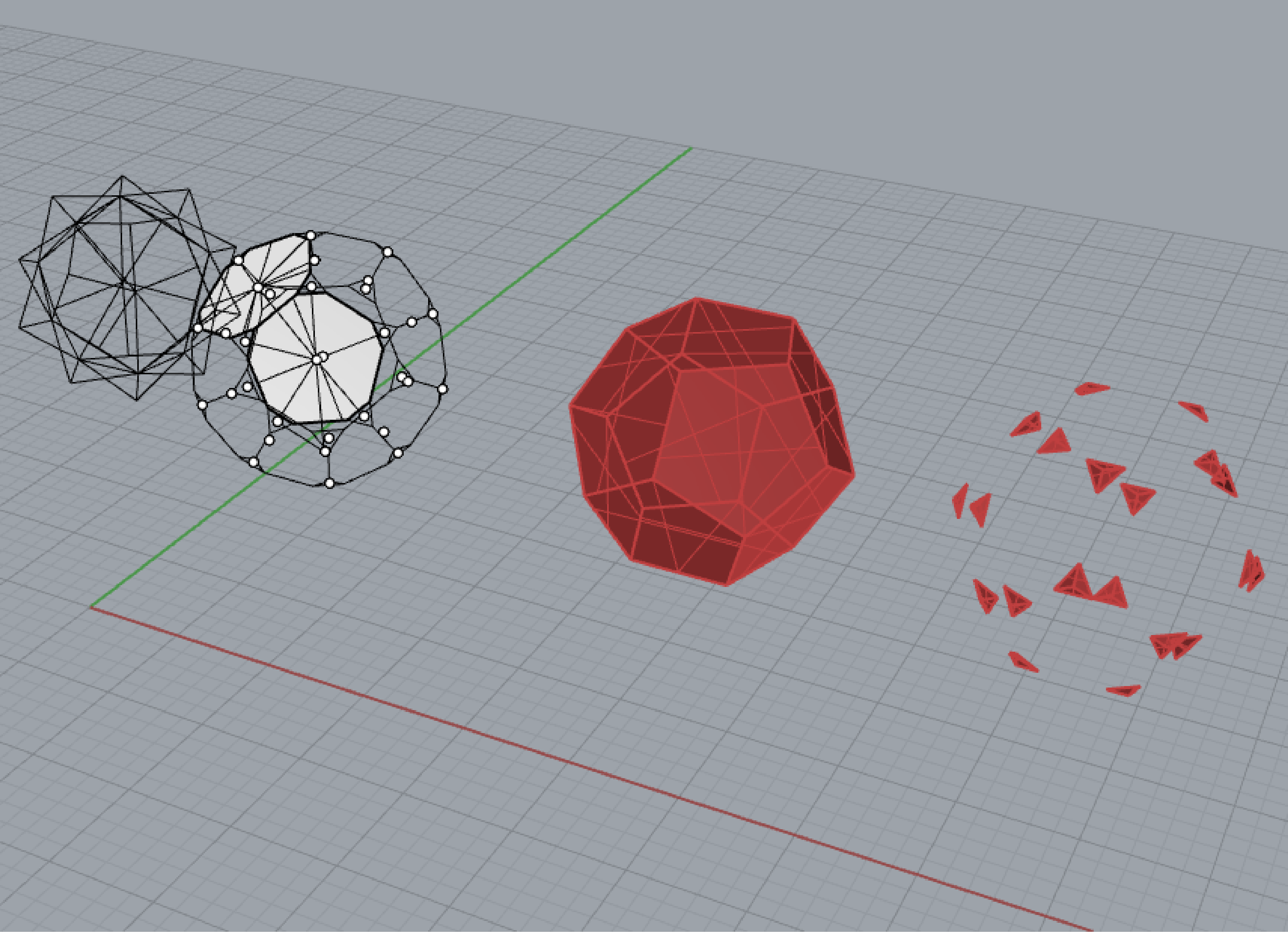
Layer	Material	Linetype
Default	Light gray	Continuous
Texto	Yellow	Continuous
Notas	Black	Continuous
Cubo	Blue	Continuous
Linhas Auxiliares	White	Continuous
Wirecut	Yellow	Continuous
Arestas	Black	Continuous
Linhas Auxiliares 2	Yellow	Continuous
Cubo Truncado	Gray	Continuous
Dual	Red	Continuous

perspective Top Front Right +
 Point Mid Cen Int Perp Tan Quad Knot Vertex Project Disable

Exerc. 2.1.2 – DUAL DO CUBO TRUNCADO

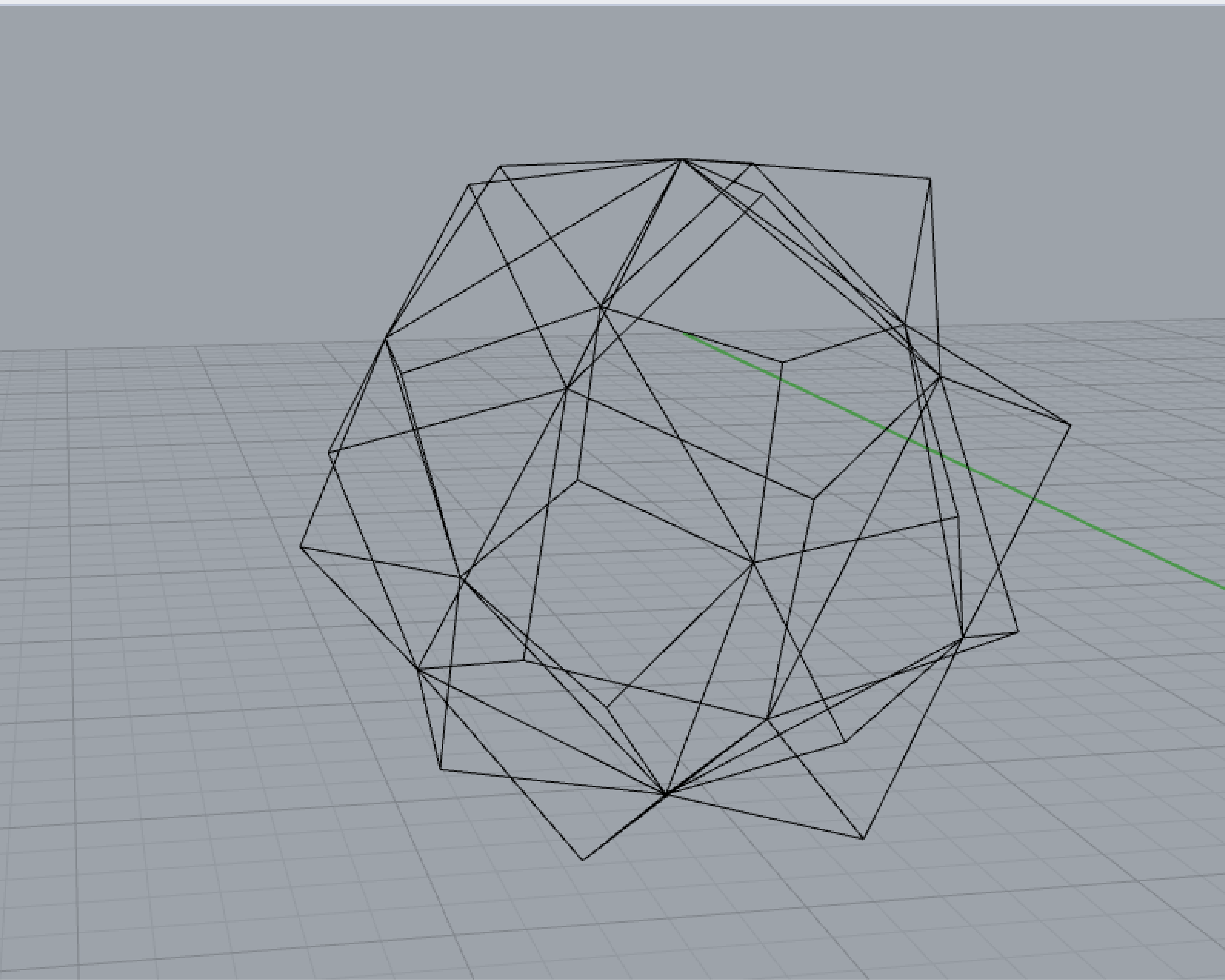
























































Exerc. 2.2 – DODECAEDRO TRUNCADO



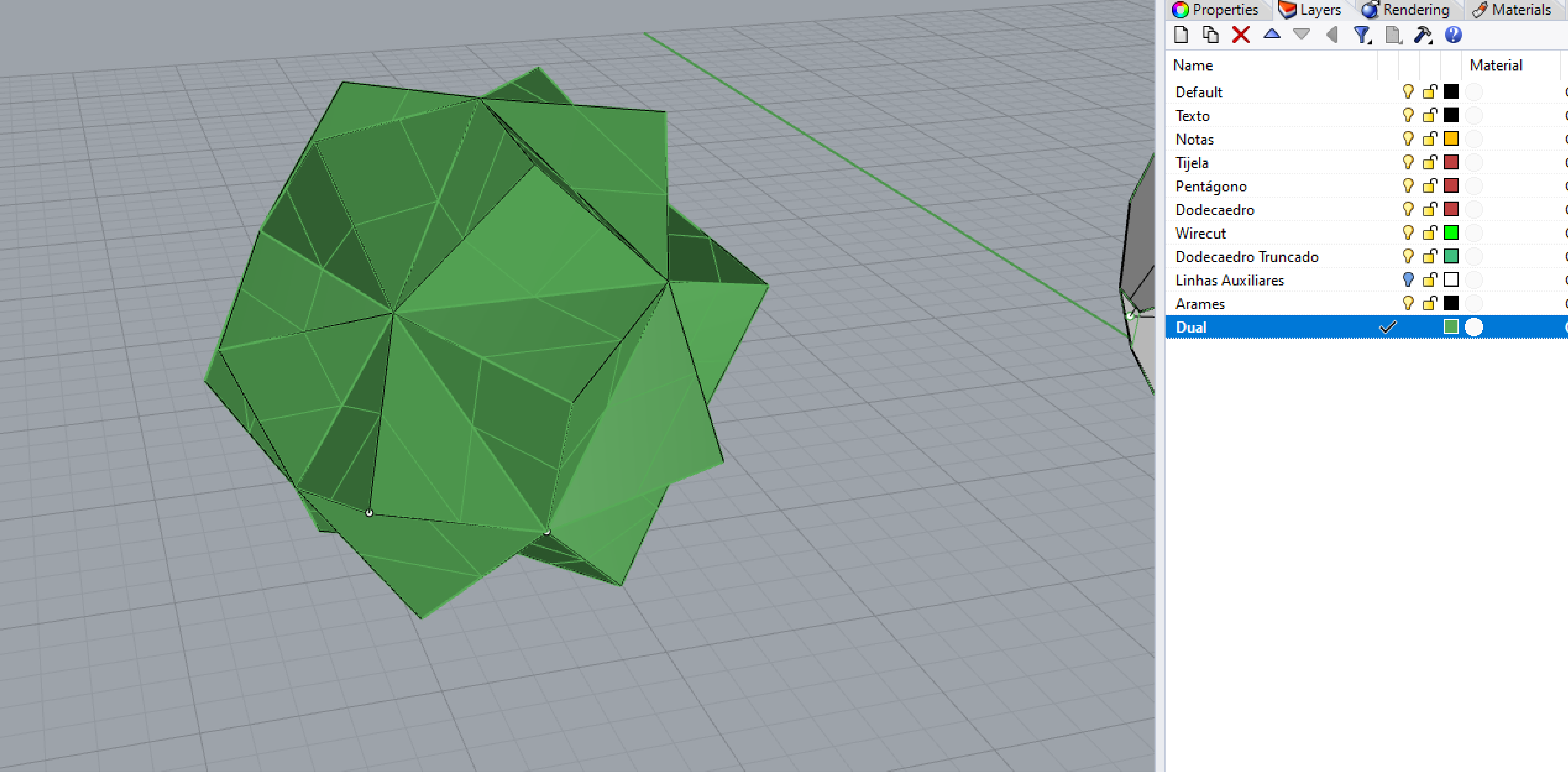
Name	Material	Linetype
Default		Continuous
Texto		Continuous
Notas		Continuous
Tijela		Continuous
Pentágono		Continuous
Dodecaedro		Continuous
Wirecut		Continuous
Dodecaedro Truncado		Continuous
Linhas Auxiliares		Continuous
Arames		Continuous
Dual		Continuous

Exerc. 2.2.1 – DUAL DE DODECAEDRO TRUNCADO

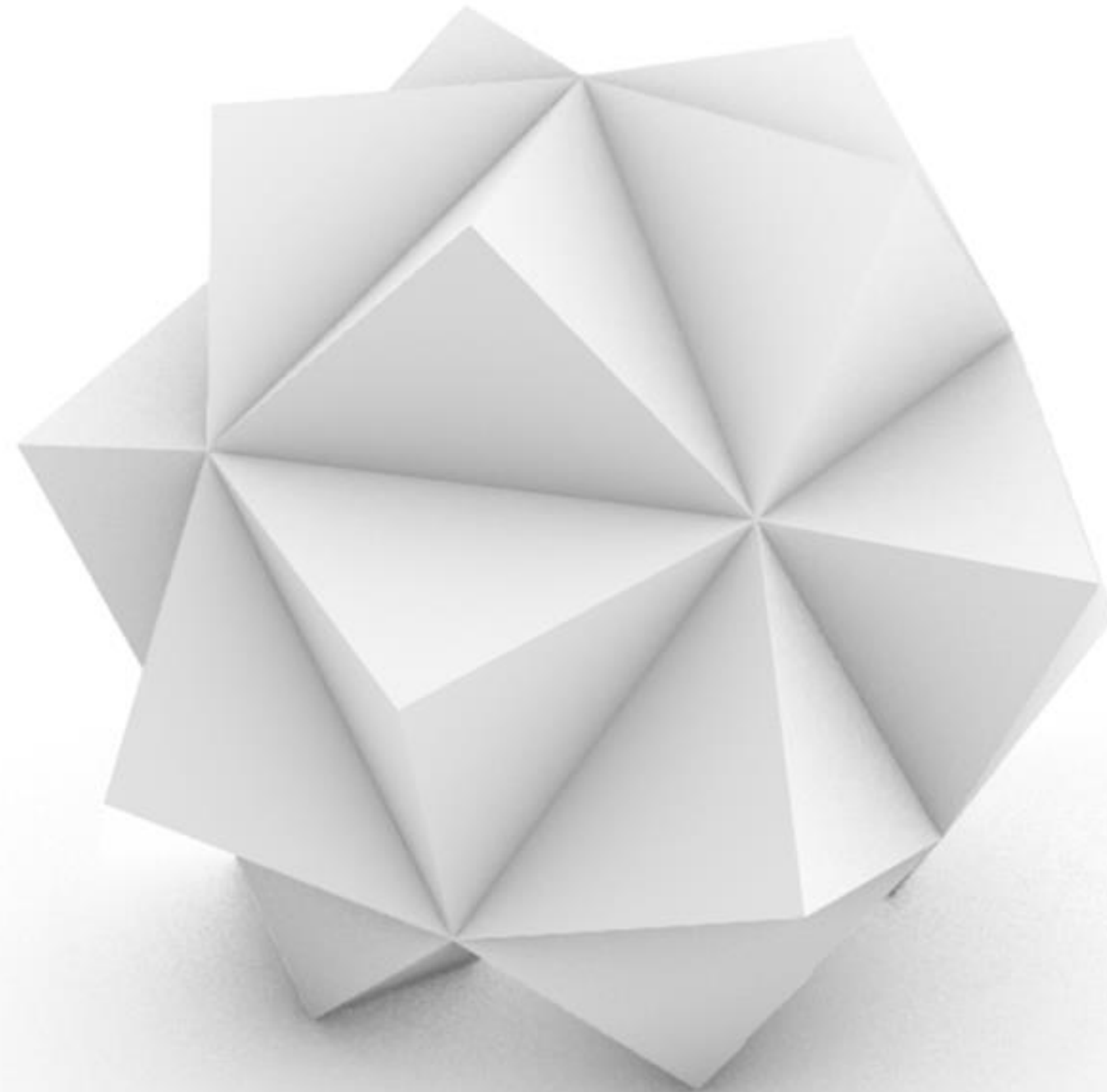


Name	Material	Linetype	Print Width
Default	   	Continuous	 Default
Texto	   	Continuous	 Default
Notas	   	Continuous	 Default
Tijela	   	Continuous	 Default
Pentágono	   	Continuous	 Default
Dodecaedro	   	Continuous	 Default
Wirecut	   	Continuous	 Default
Dodecaedro Truncado	   	Continuous	 Default
Linhas Auxiliares	   	Continuous	 Default
Arames	  	Continuous	 Default
Dual	   	Continuous	 Default

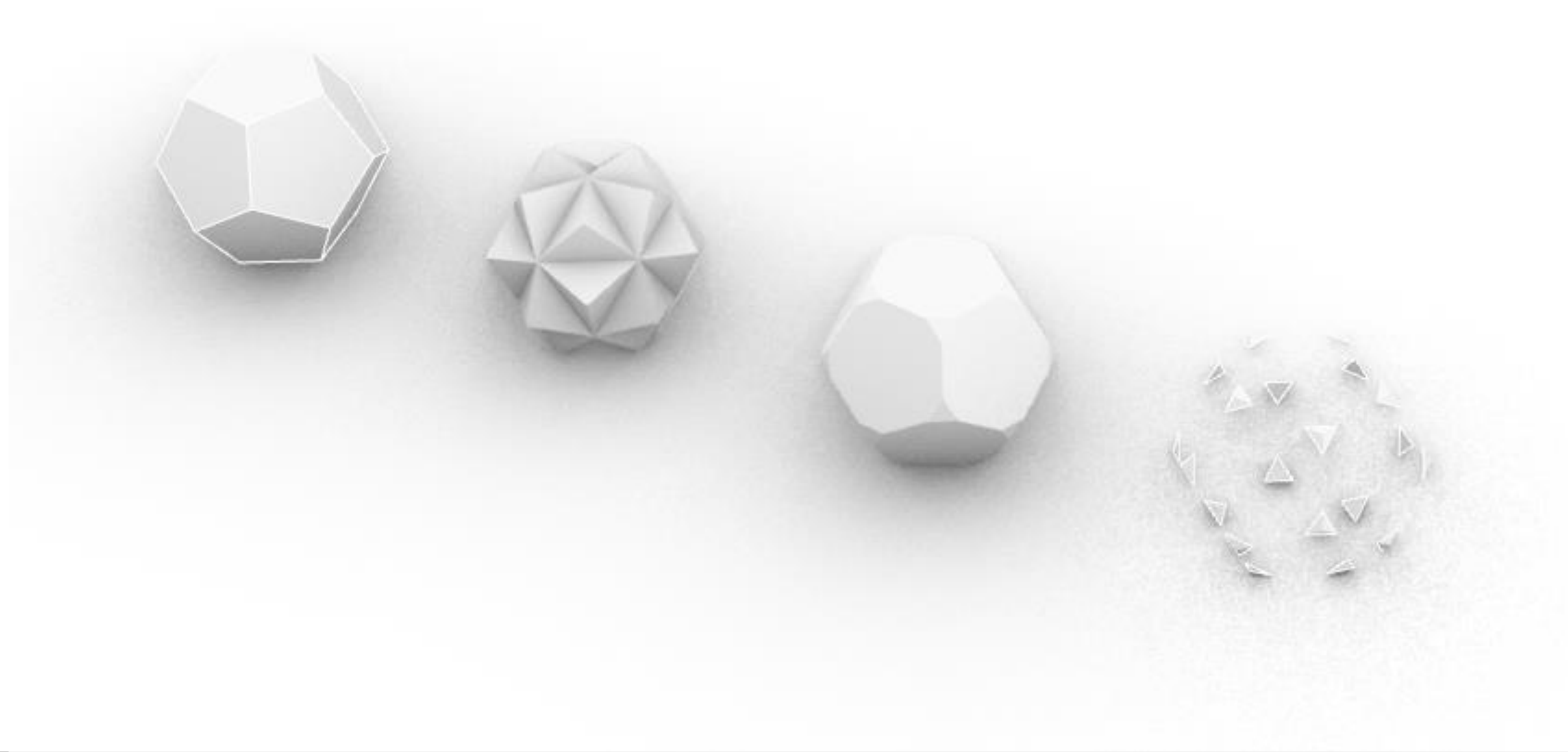
Exerc. 2.2.2 – DUAL DE DODECAEDRO TRUNCADO



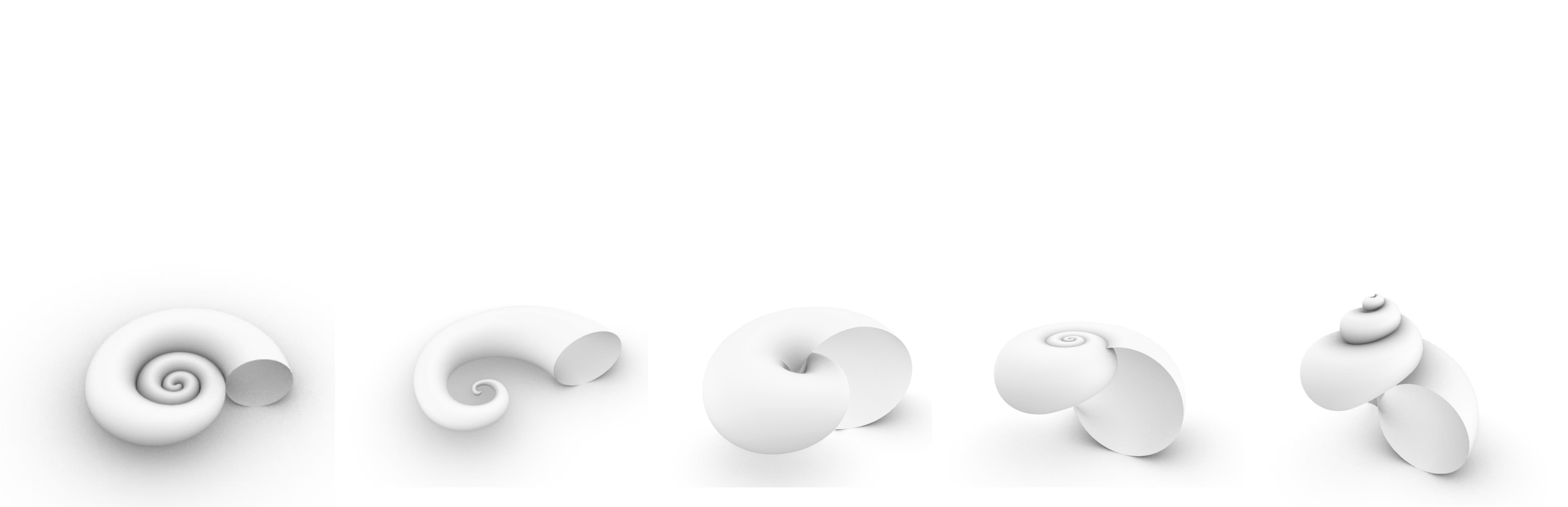
Exerc. 2.2.2 – DUAL DE DODECAEDRO TRUNCADO



Exerc. 2.1.4 – DUAL DE DODECAEDRO TRUNCADO



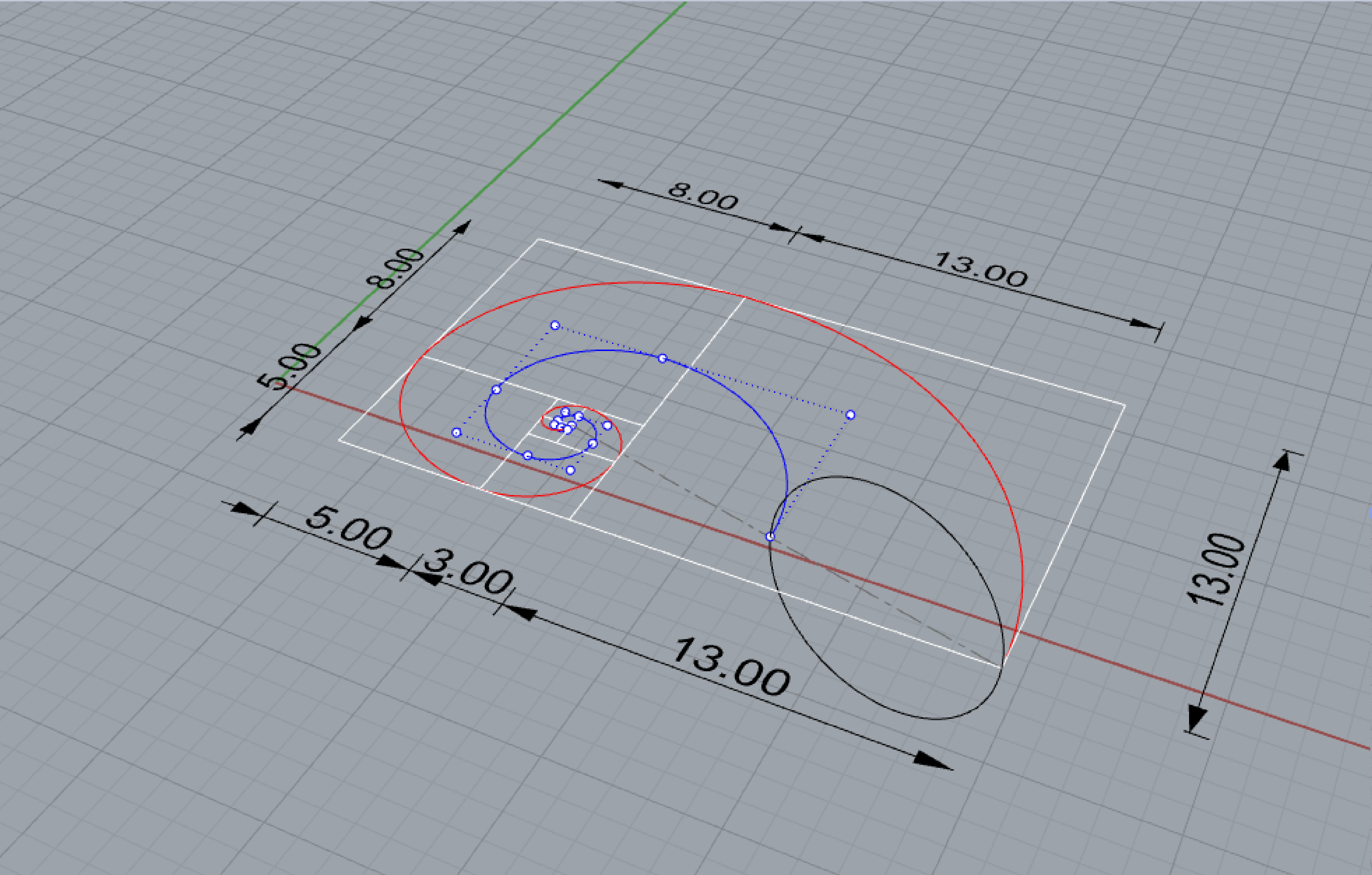
Exerc. 2.2 – DUAL DE PENTÁGONO E DODECAEDRO TRUNCADO



Exerc. 3 - Conchas



Exerc. 3.1 - Spirula

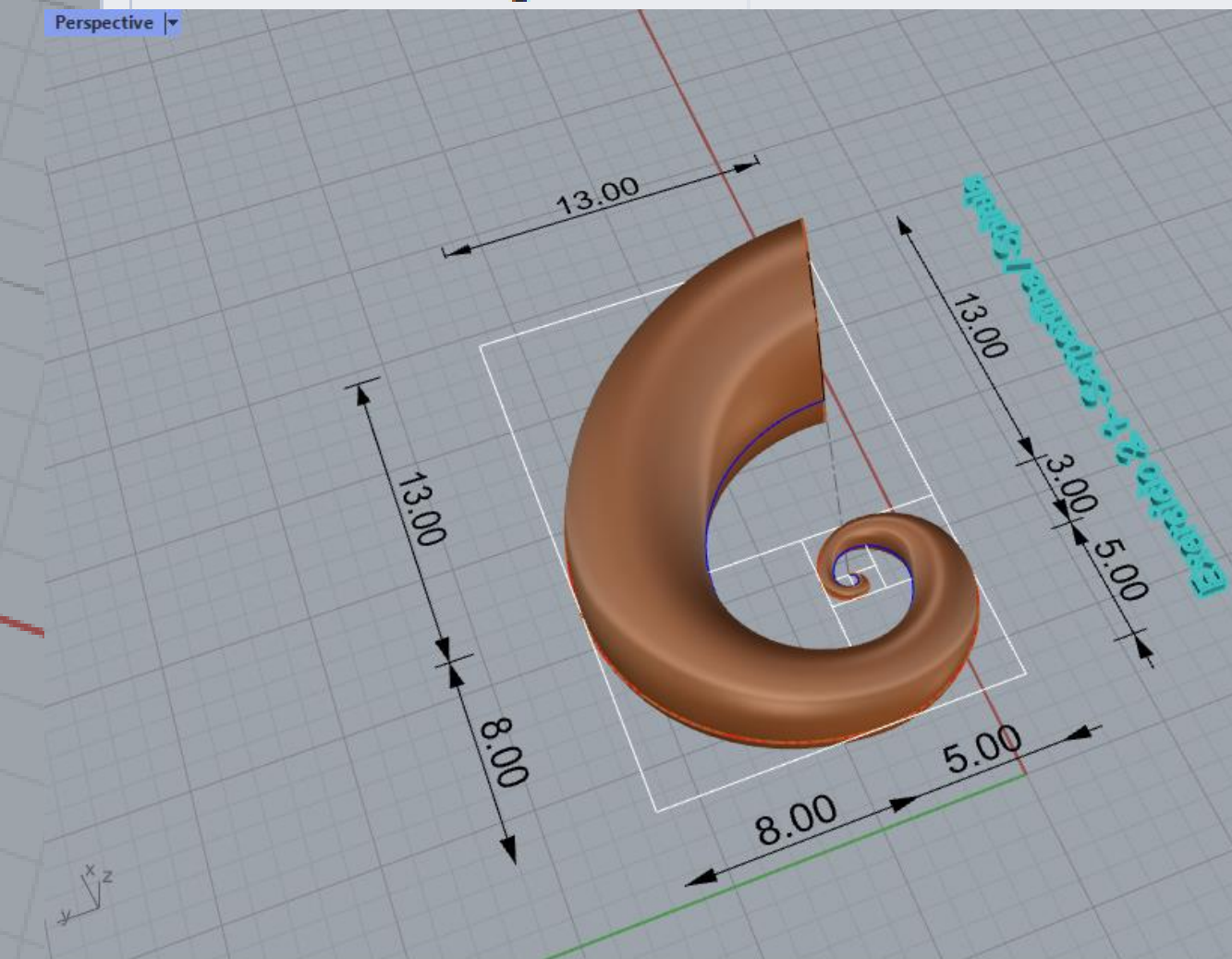


Properties: View properties

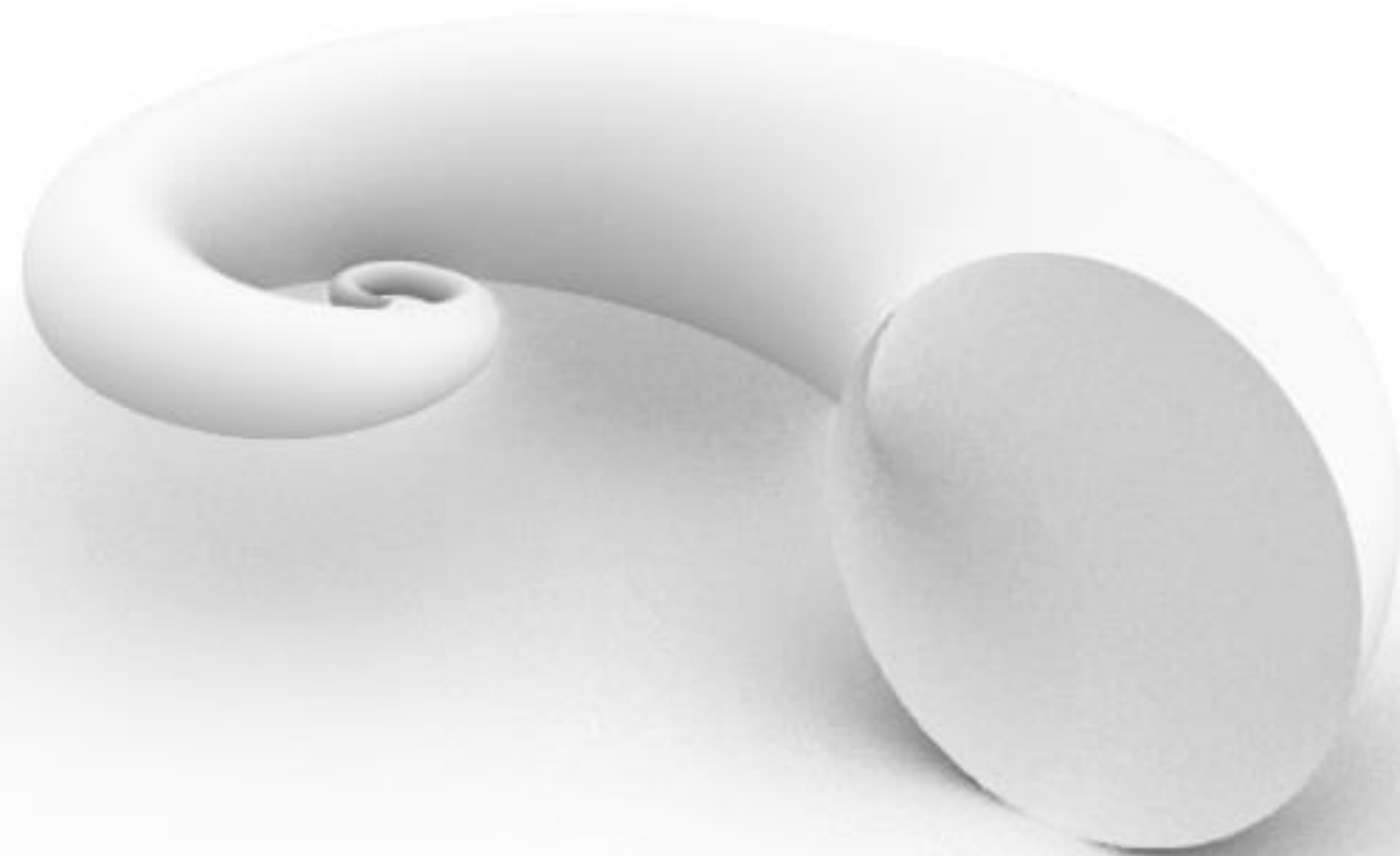
Title	Perspective
Width	1182
Height	634
Projection	Perspective
Locked	<input type="checkbox"/>

Camera

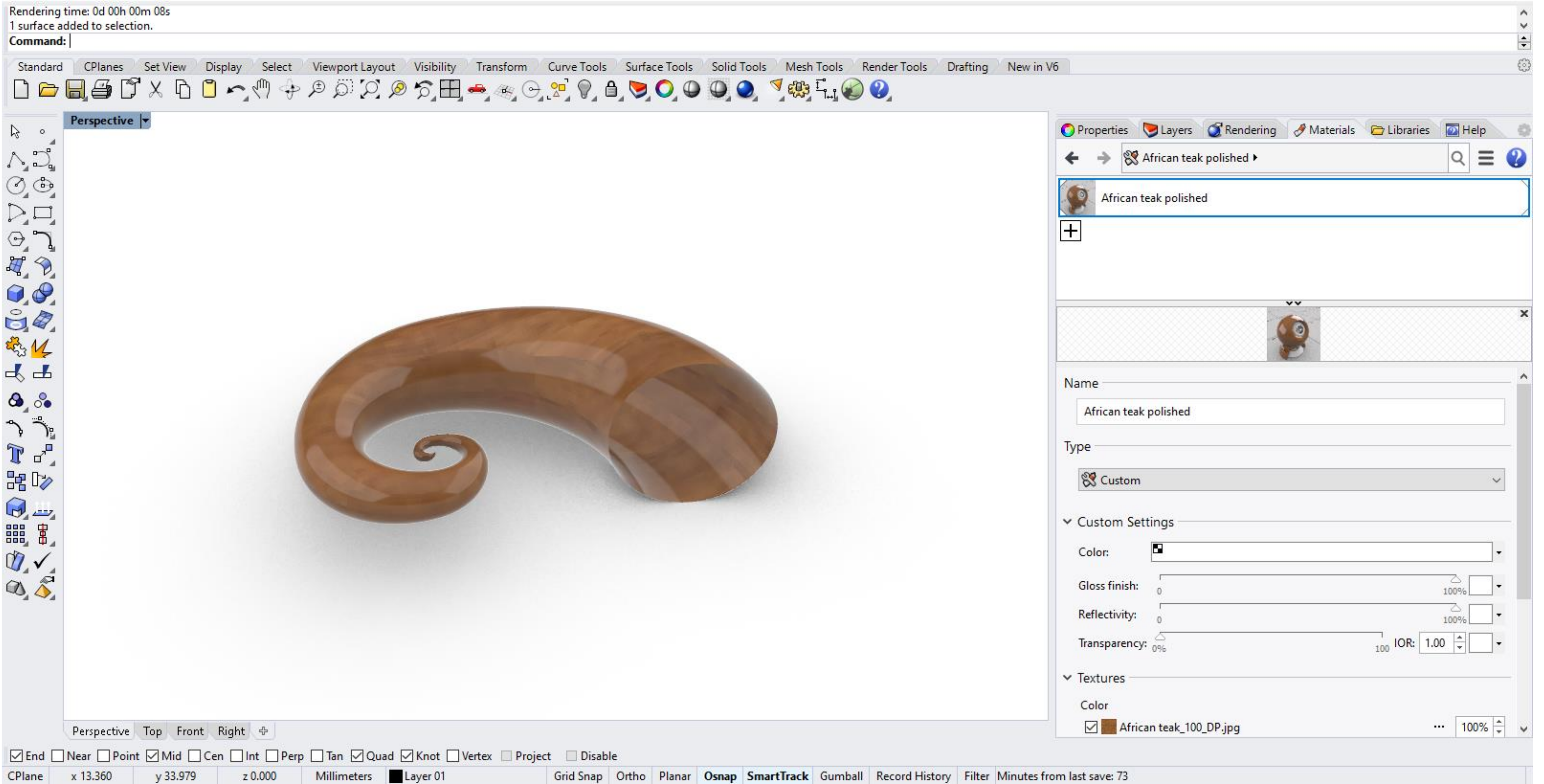
Lens Length(mm)	50.0
Rotation	0.0
X Location	30.178
Y Location	-37.677
Z Location	35.409
Distance to Target	60.912



Exerc. 3.1 - Spirula



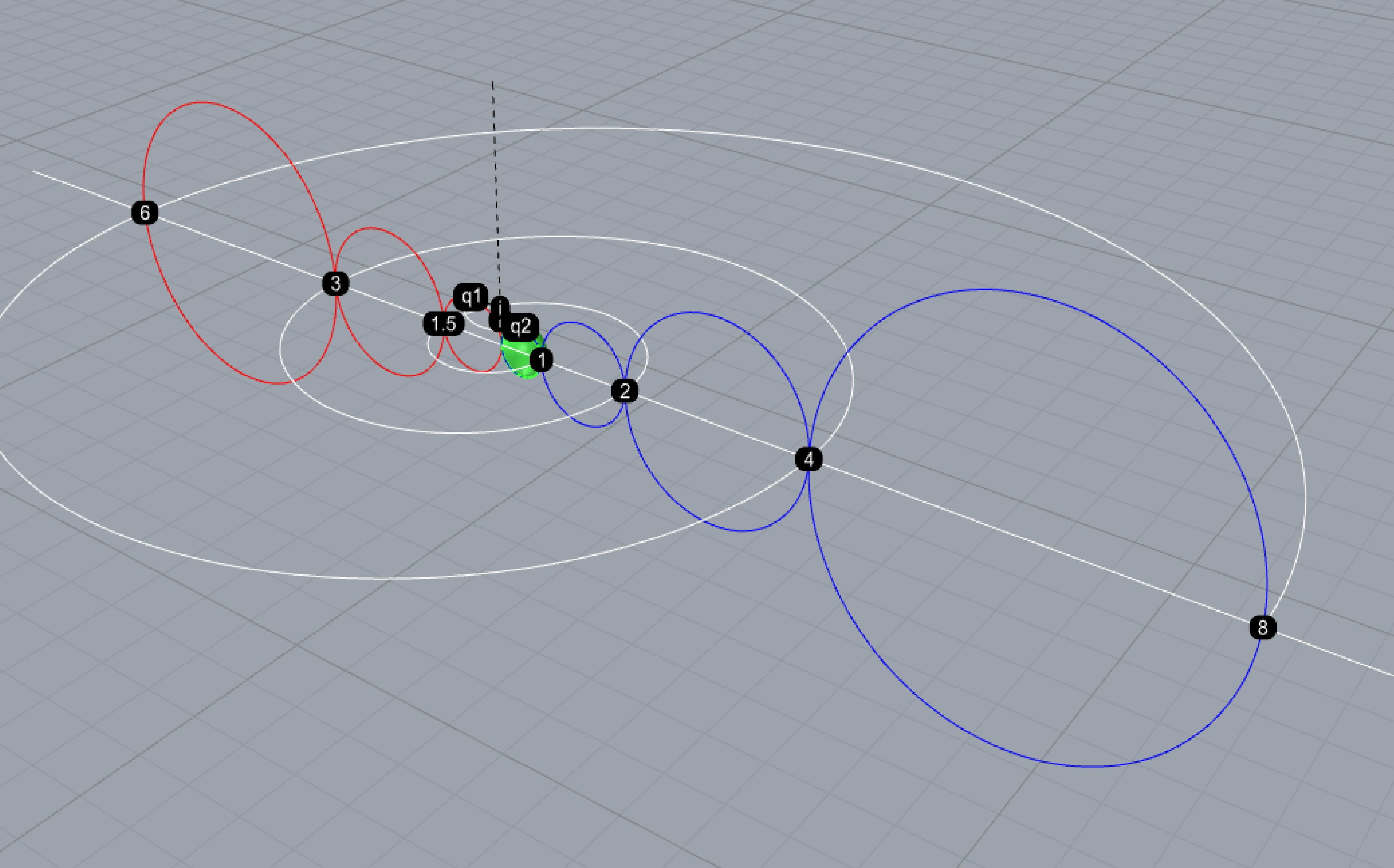
Exerc. 3.1 - Spirula



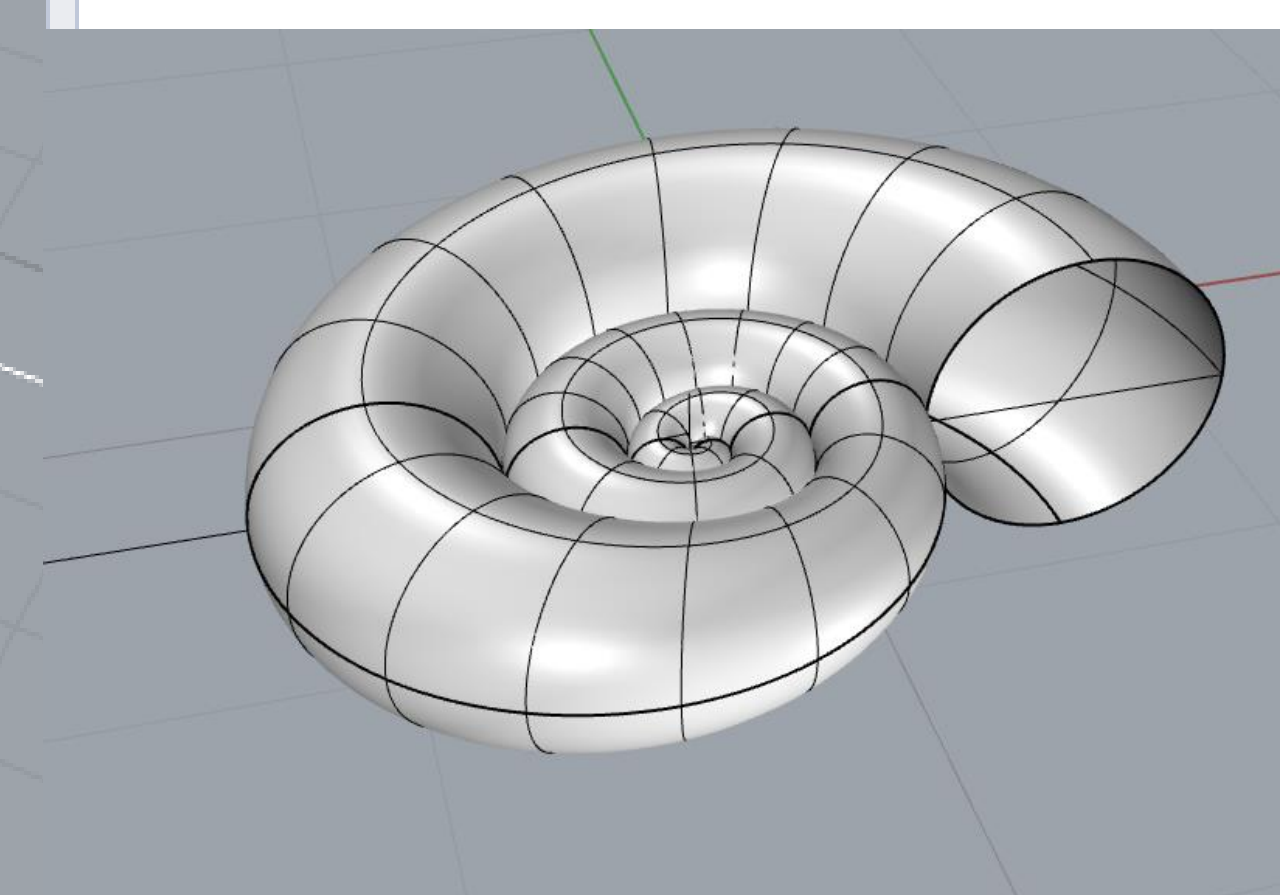
Exerc. 3.1 - Spirula



Exerc. 3.2 - Planorbis



Layer	Material	Linetype
Default		Continuous
Texto		Continuous
Notas		Continuous
Geratriz 1		Continuous
Geratriz 2		Continuous
Planorbis		Continuous
Diretrizes		Continuous
Linhas auxiliares 1		Continuous
Linhas auxiliares 2		Hidden



Exerc. 3.2 - Planorbis



Exerc. 3.2 - Planorbis



Properties Layers Rendering Materials Libraries Help

Custom

- Terracotta
- Salmon Plaster
- Custom**

Stucco Texture 100%

Transparency (click to assign texture) 100%

Bump Capturar 100%

Environment Capturar (1) 21%

Advanced Settings

- Self-illumination
- Fresnel reflectivity
- Alpha transparency
- Reflection polish: 0 to 100%
- Transparent clarity: 0 to 100%
- Emission color: [Black]

Perspective Top Front Right

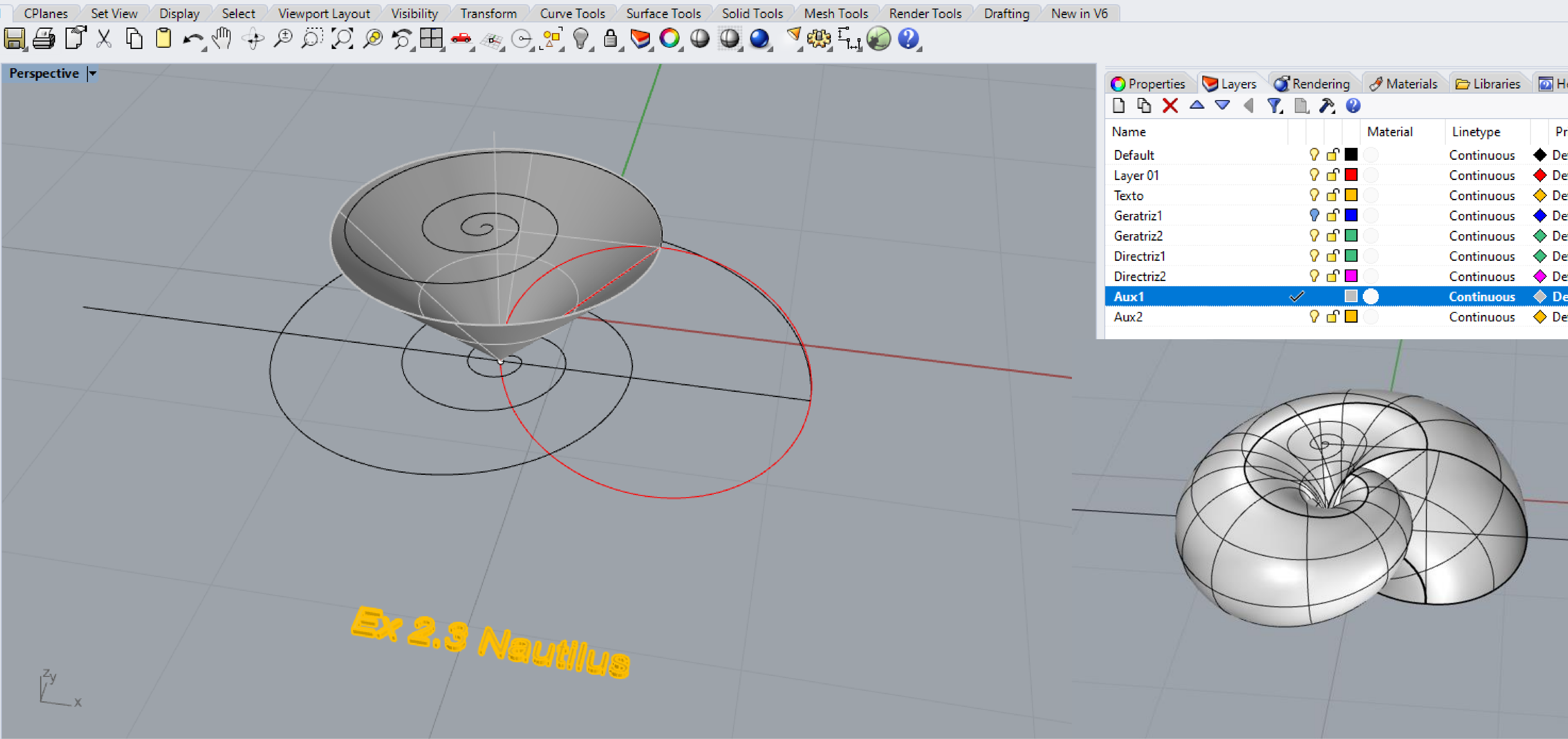
End Near Point Mid Cen Int Perp Tan Quad Knot Vertex Project Disable

CPlane x 7.068 y 5.007 z 0.000 Millimeters Default Grid Snap Ortho Planar Osnap SmartTrack Gumball Record History Filter Memory use: 601 MB

Exerc. 3.2 - Planorbis

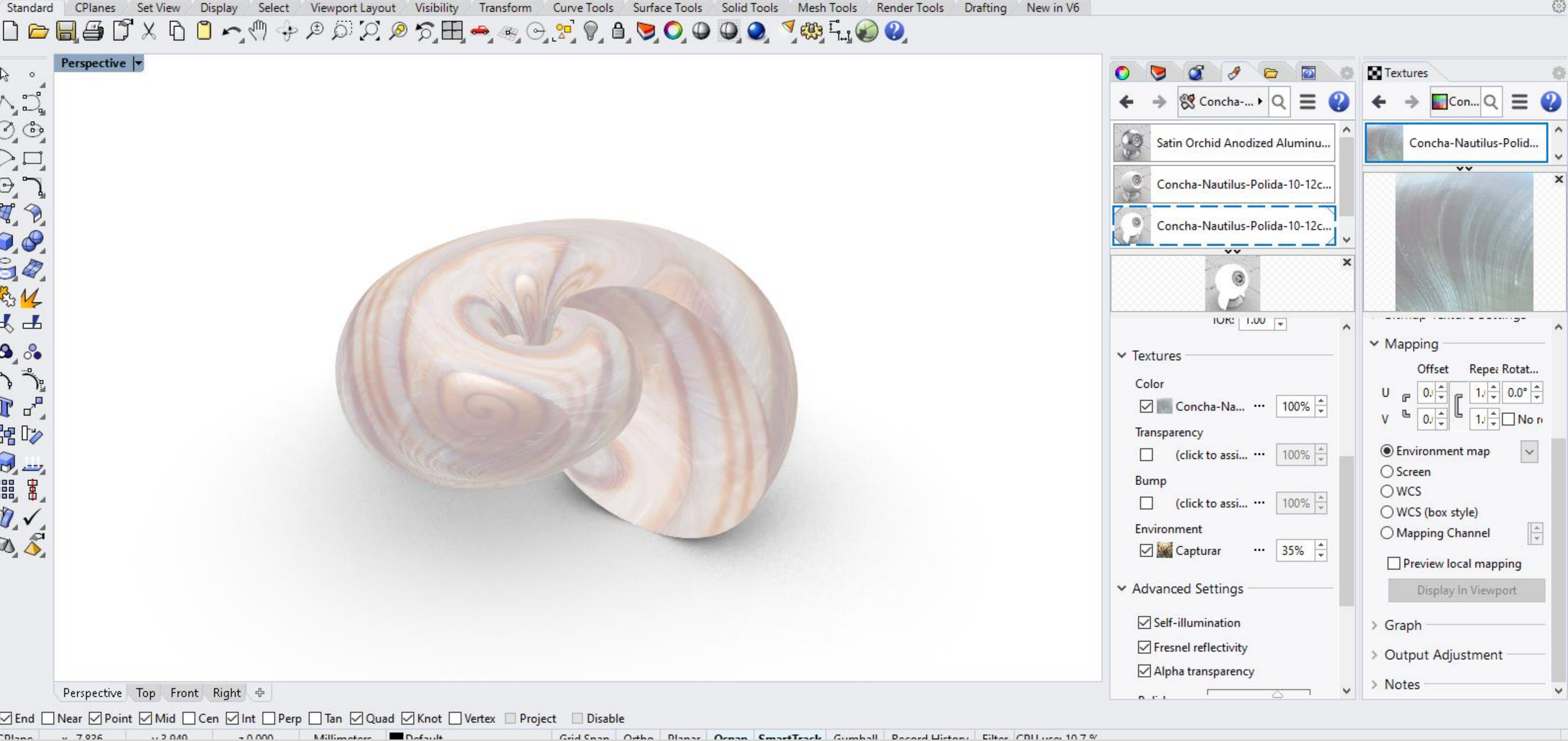


Exerc. 3.3 - Nautilus

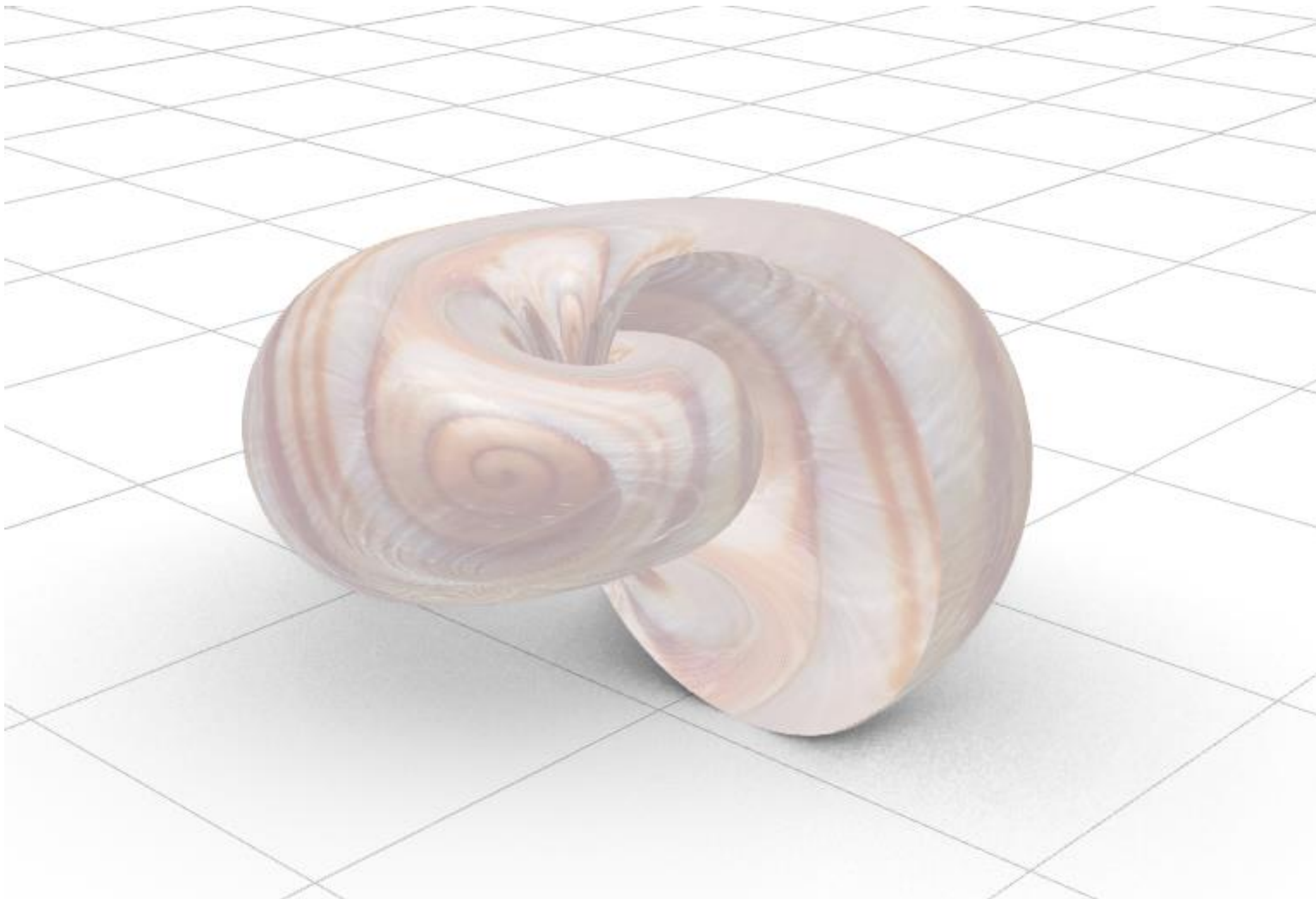


Ex 2.3 Nautilus

Exerc. 3.3 - Nautilus



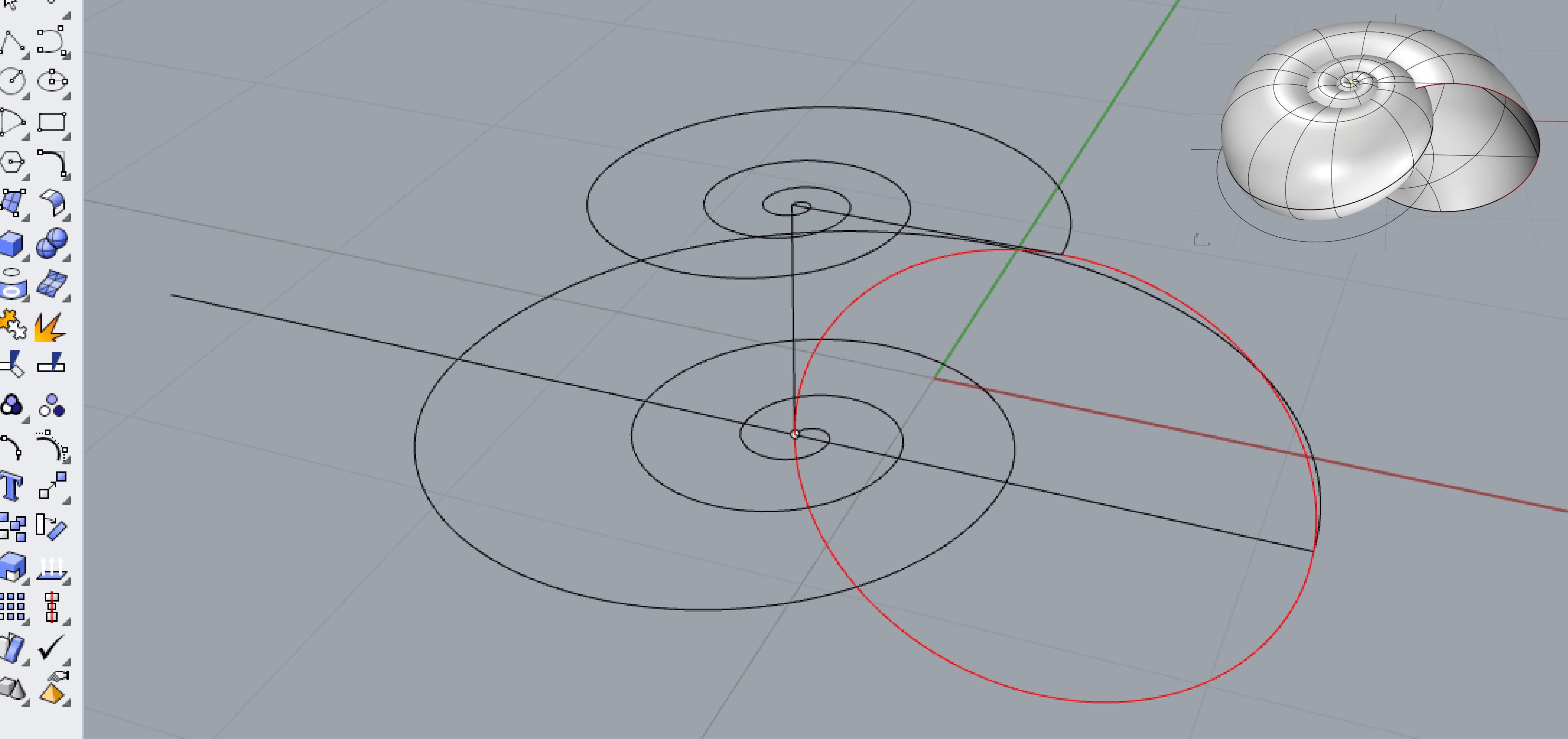
Exerc. 3.3 - Nautilus



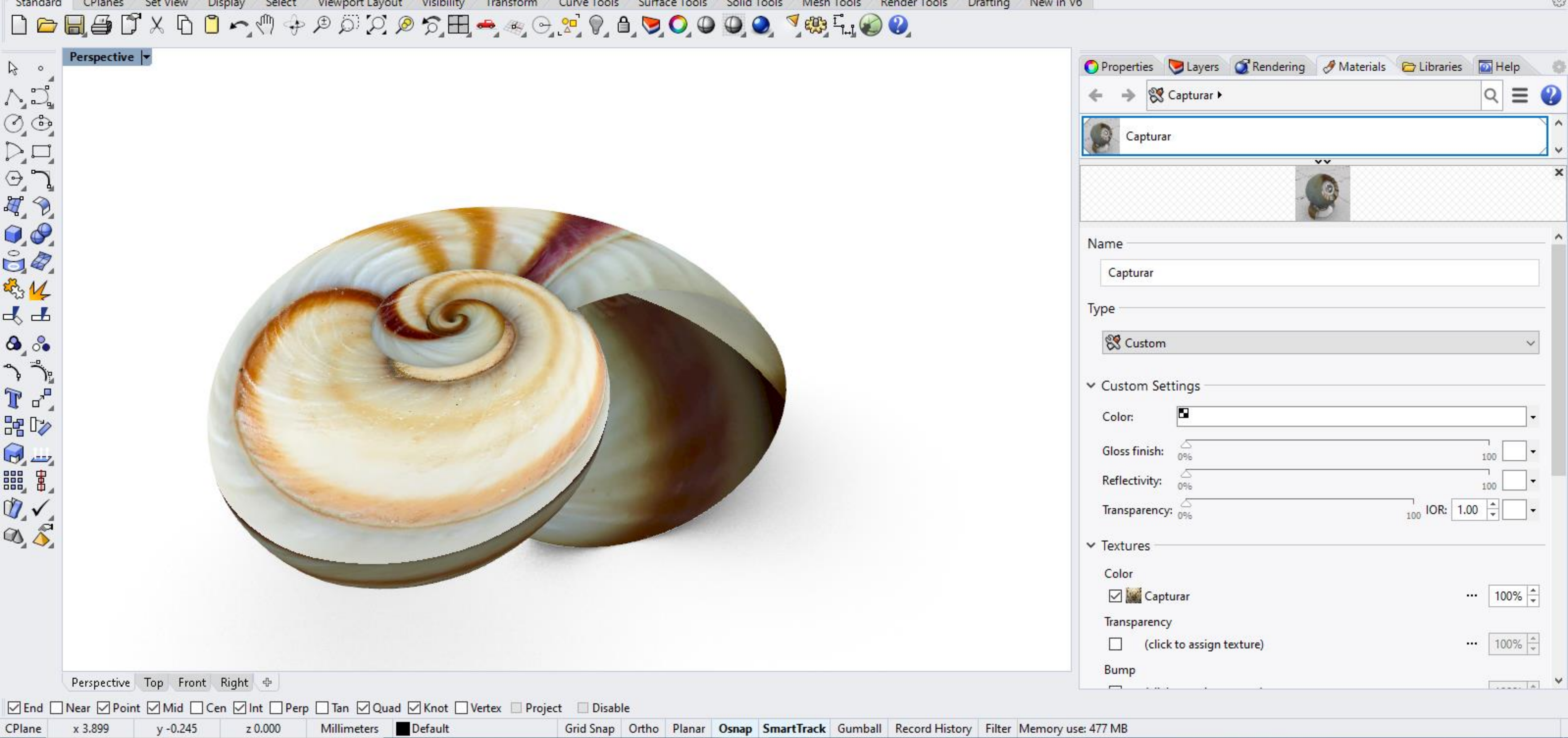
Exerc. 3.3 - Nautilus



Exerc. 3.4 - Caracol



Exerc. 3.4 - Caracol



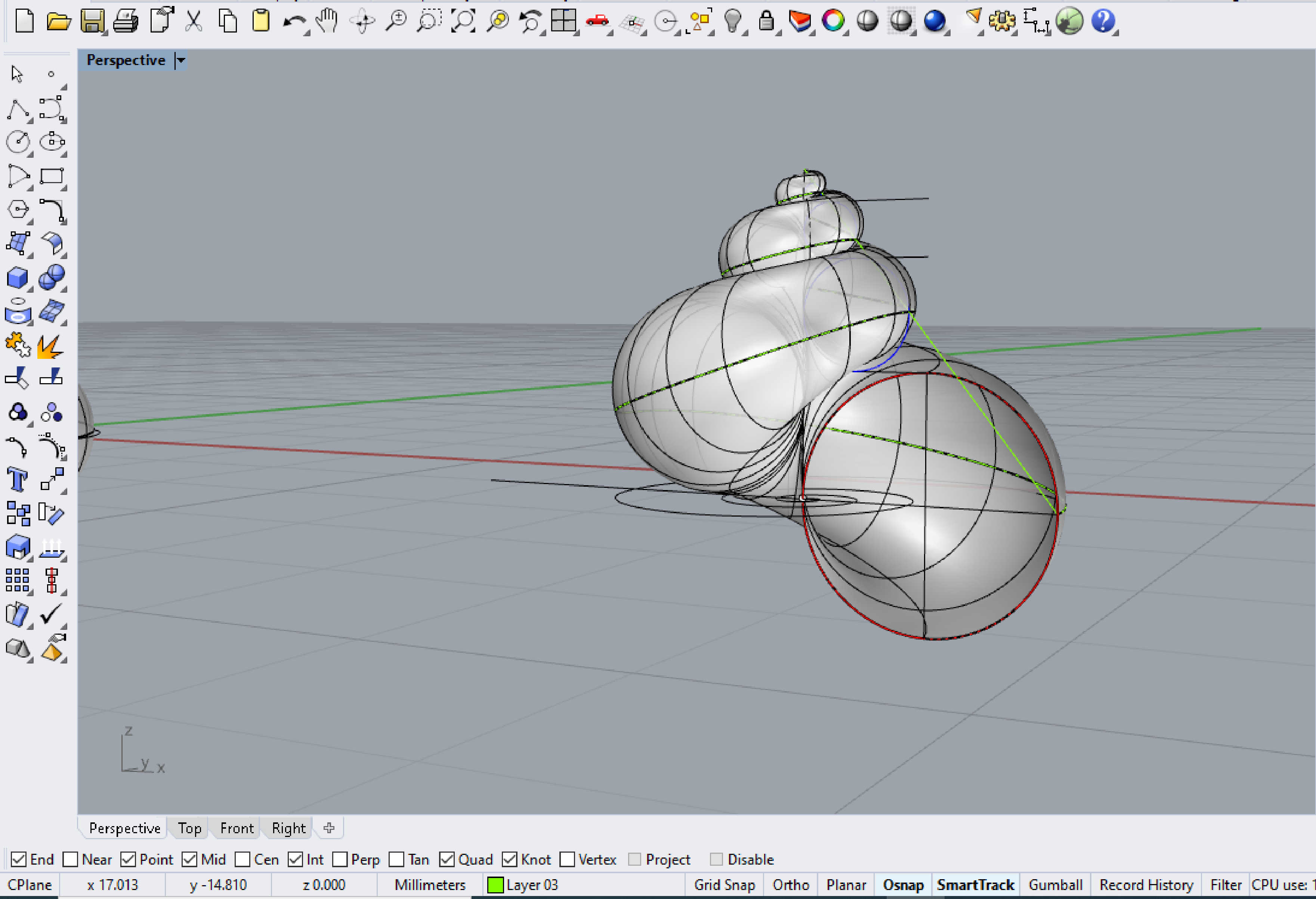
Exerc. 3.4 - Caracol



Exerc. 3.4 - Caracol



Exerc. 3.5 - Caramujo



Properties Layers Rendering Materials Libraries Help

Viewport

Title	Perspective
Width	1028
Height	635
Projection	Perspective

Camera

Lens Length	50.0
Rotation	0.0
X Location	11.238
Y Location	-8.889
Z Location	1.045
Distance to Target	7.942
Location	Place...

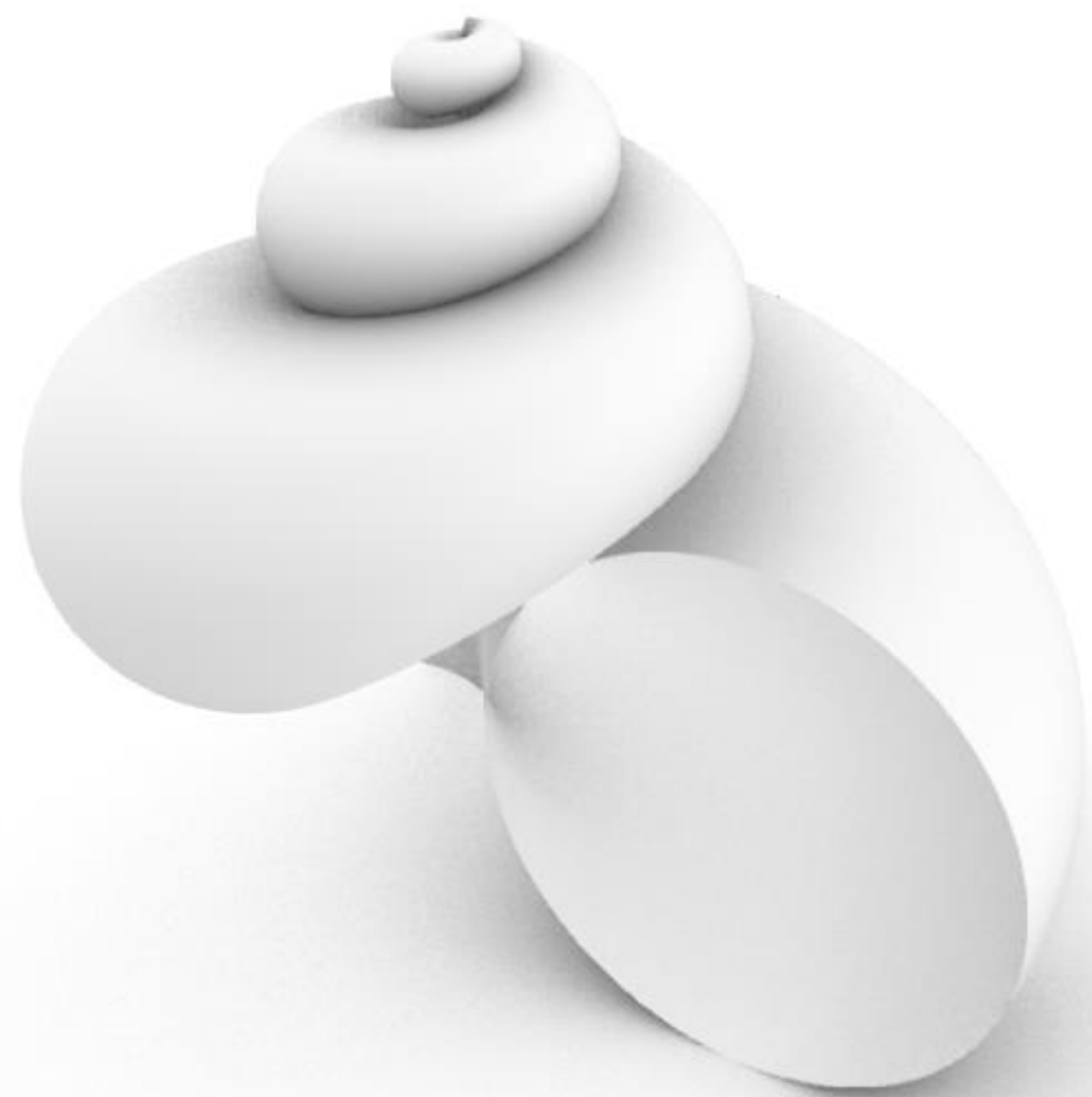
Target

X Target	7.57
Y Target	-1.873
Z Target	0.422
Location	Place...

Wallpaper

Filename	(none)
Show	<input checked="" type="checkbox"/>
Gray	<input checked="" type="checkbox"/>

Exerc. 3.5 - Caramujo



Exerc. 3.5 - Caramujo



Active



Image1 Image1



Name Image1

Type Bitmap Texture

Bitmap Texture Settings

Mapping

	Offset	Repeat	Rotation
U	0.0	1.0	0.0°
V	0.0	1.0	<input type="checkbox"/> No repeat

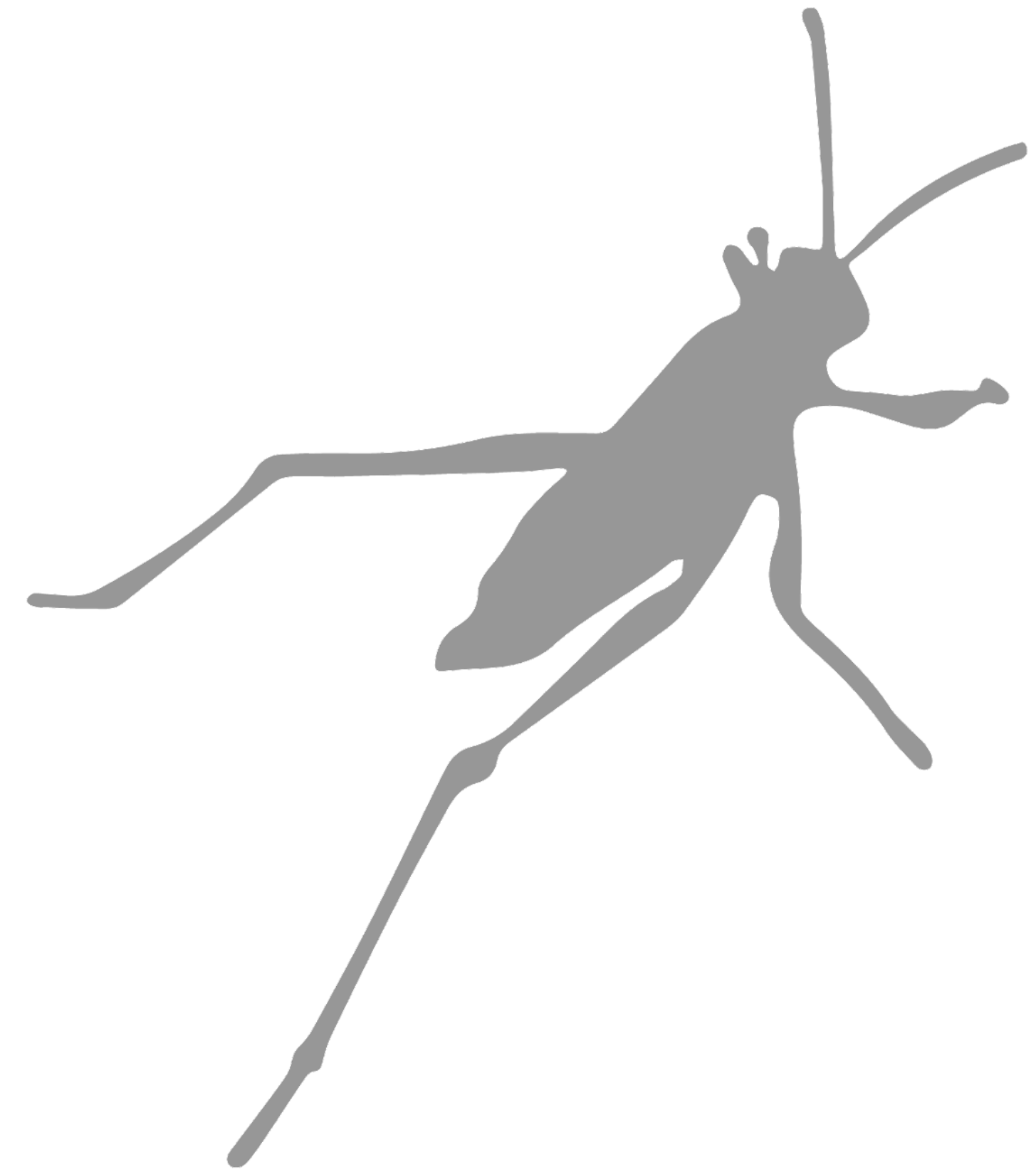
- Environment map Automatic
- Screen
- WCS
- WCS (box style)
- Mapping Channel 1

Preview local mapping
Display In Viewport

Graph

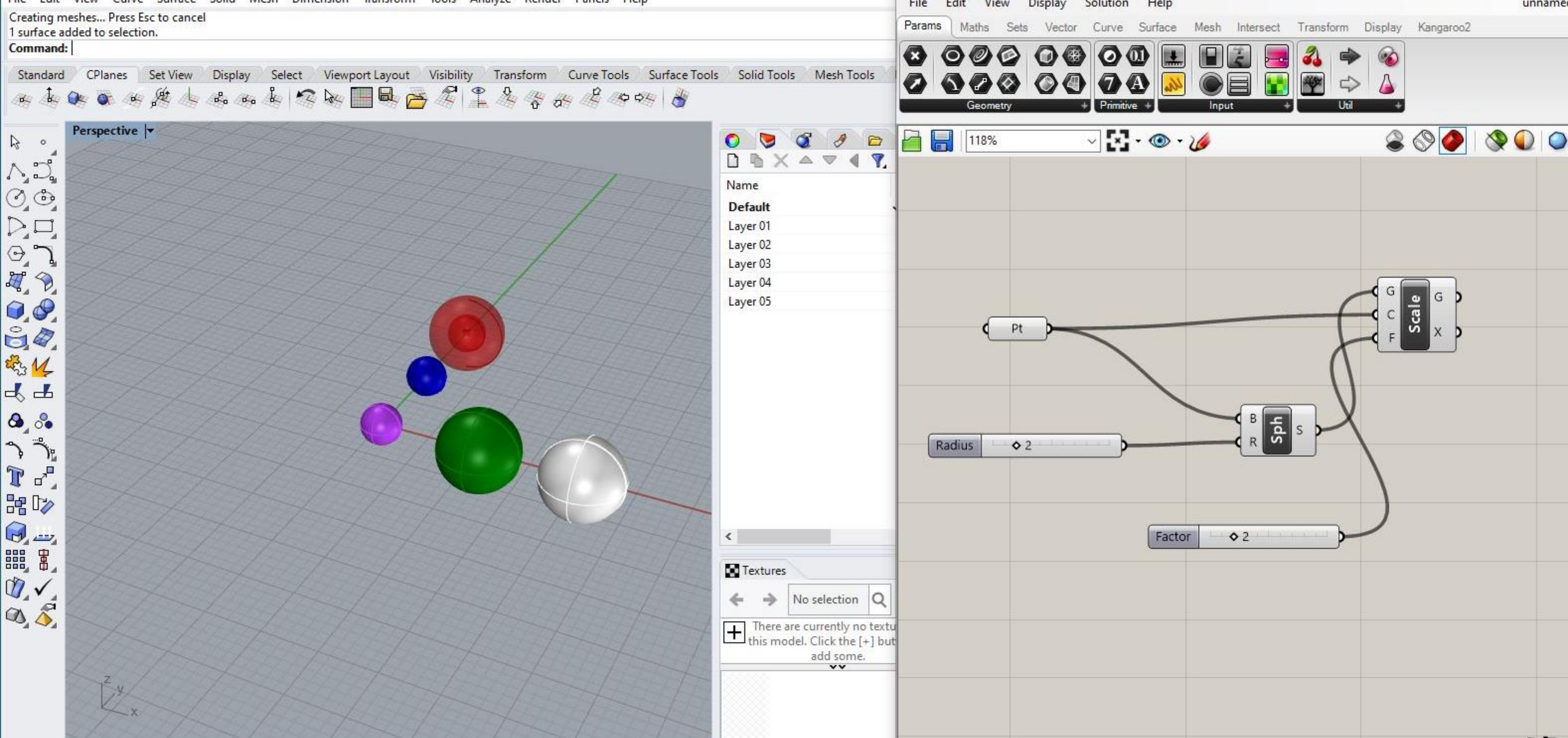
Output Adjustment

Exerc. 3.5 - Caramujo

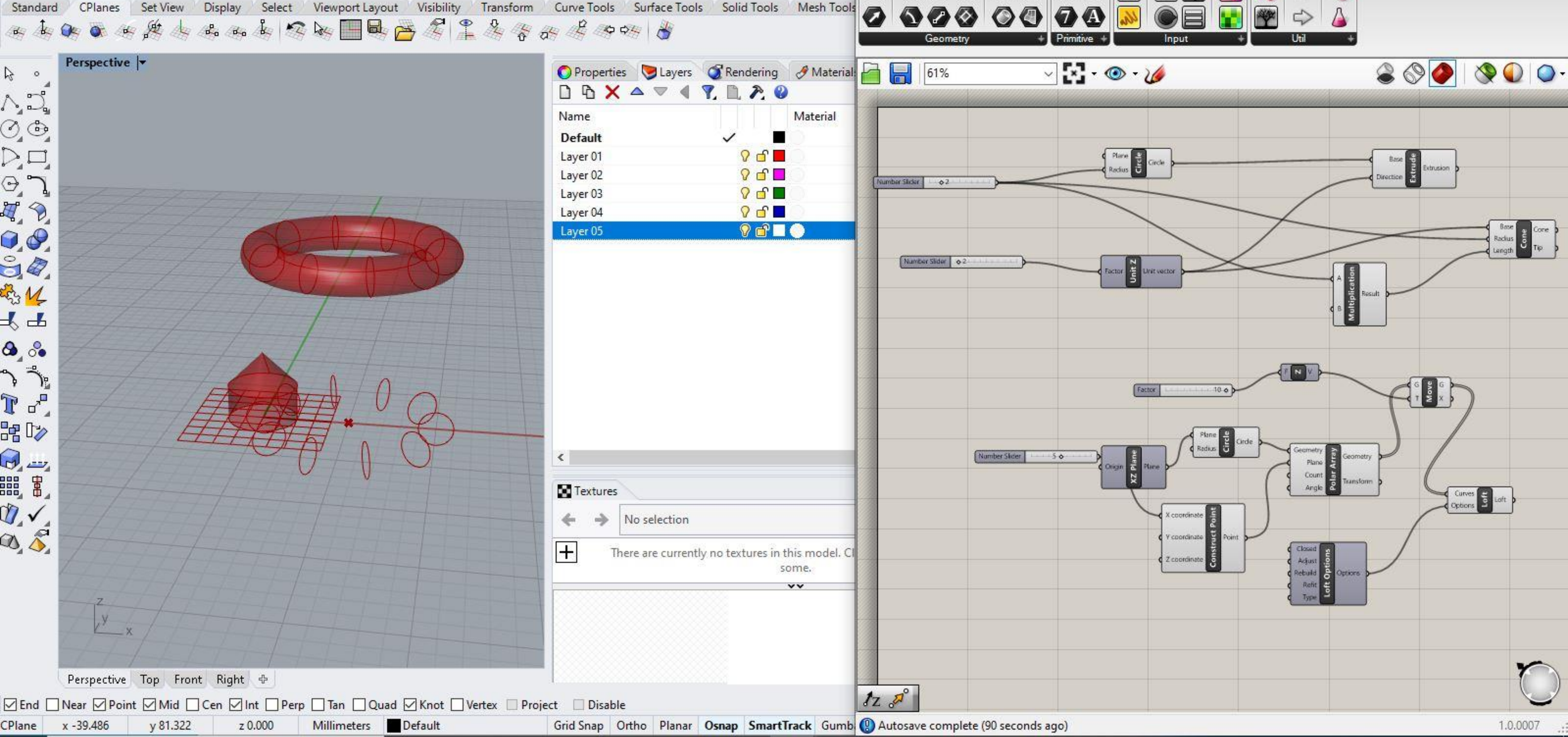


grasshopper

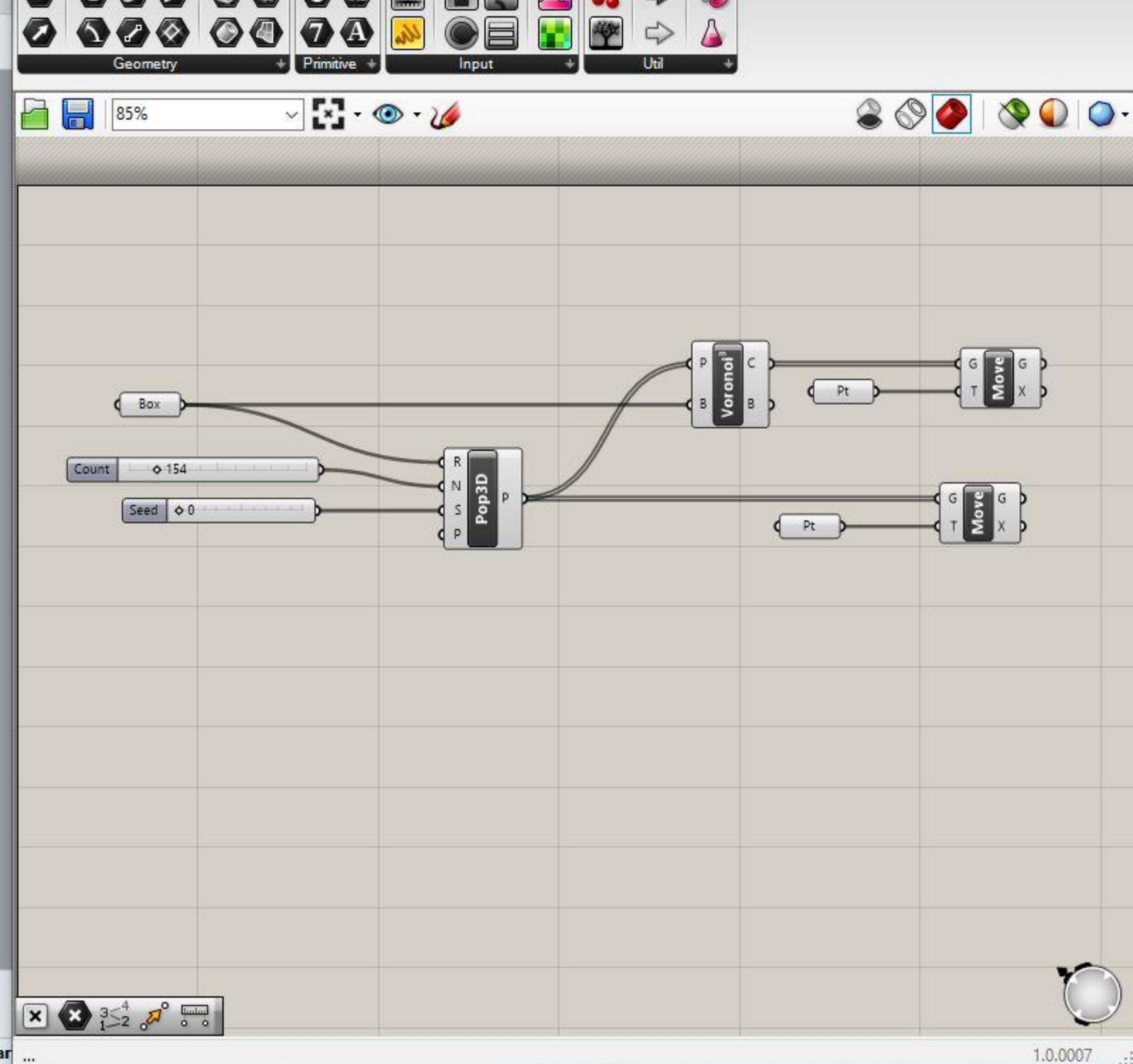
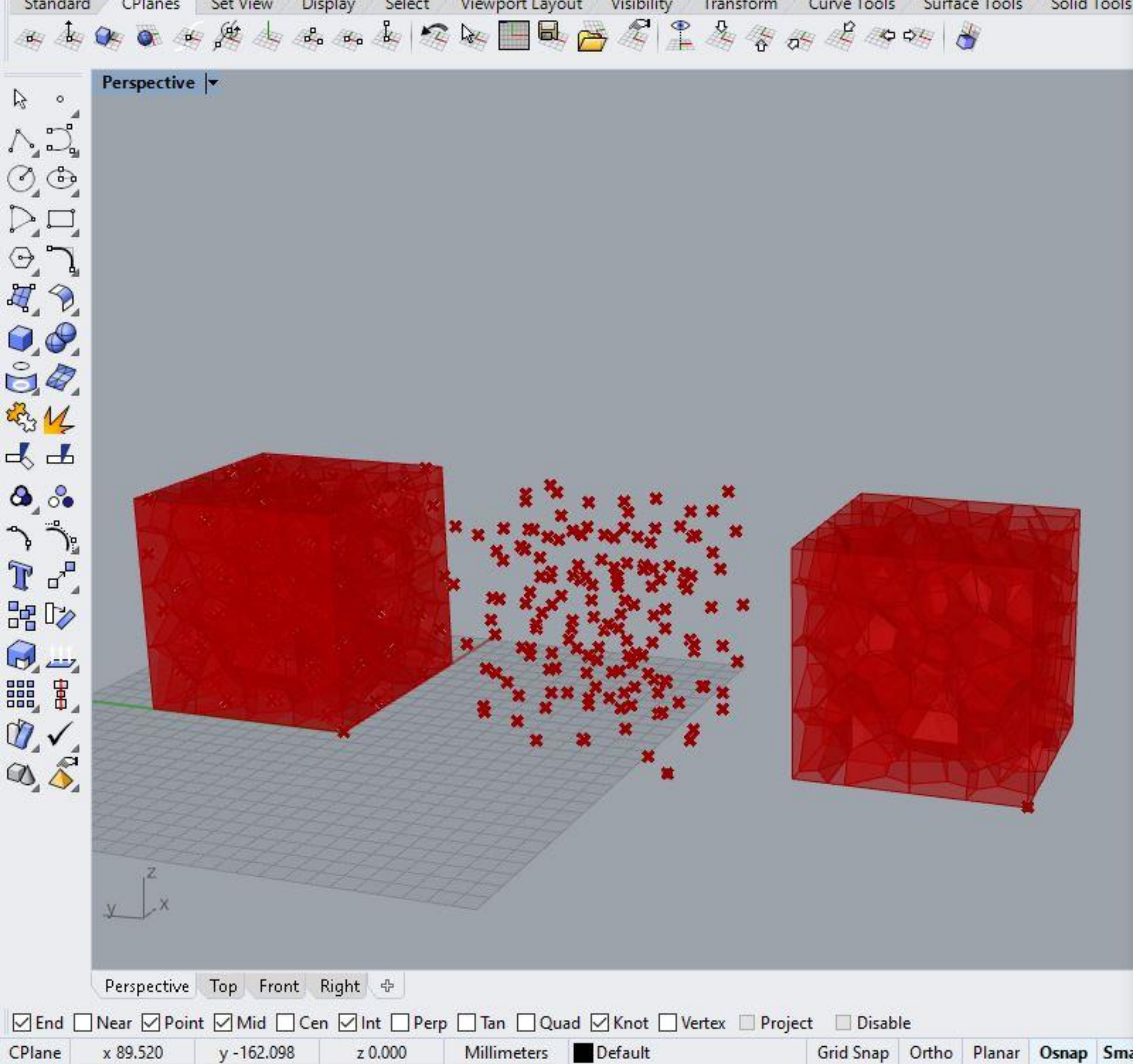
Exerc. 4 - Grasshopper



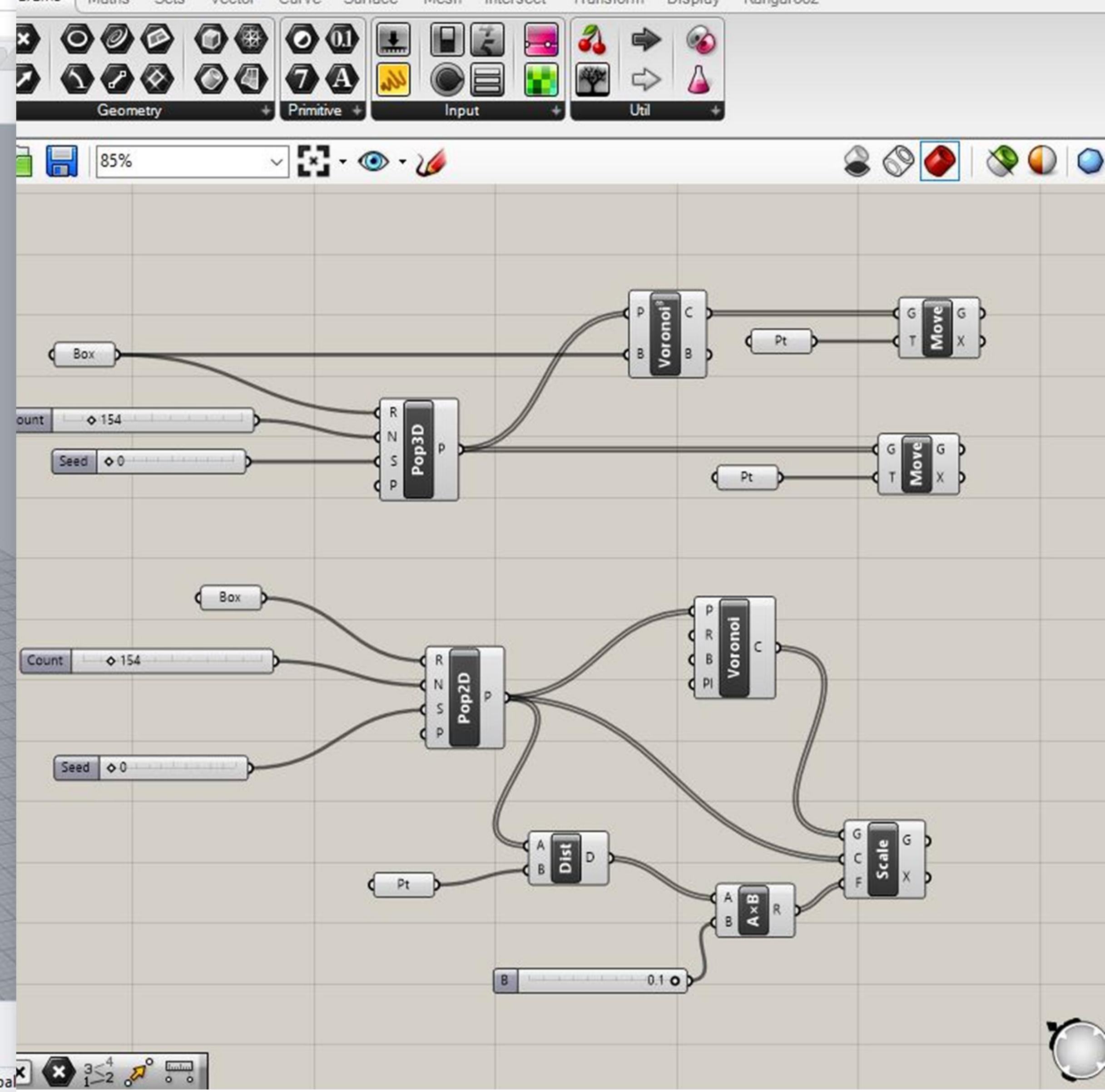
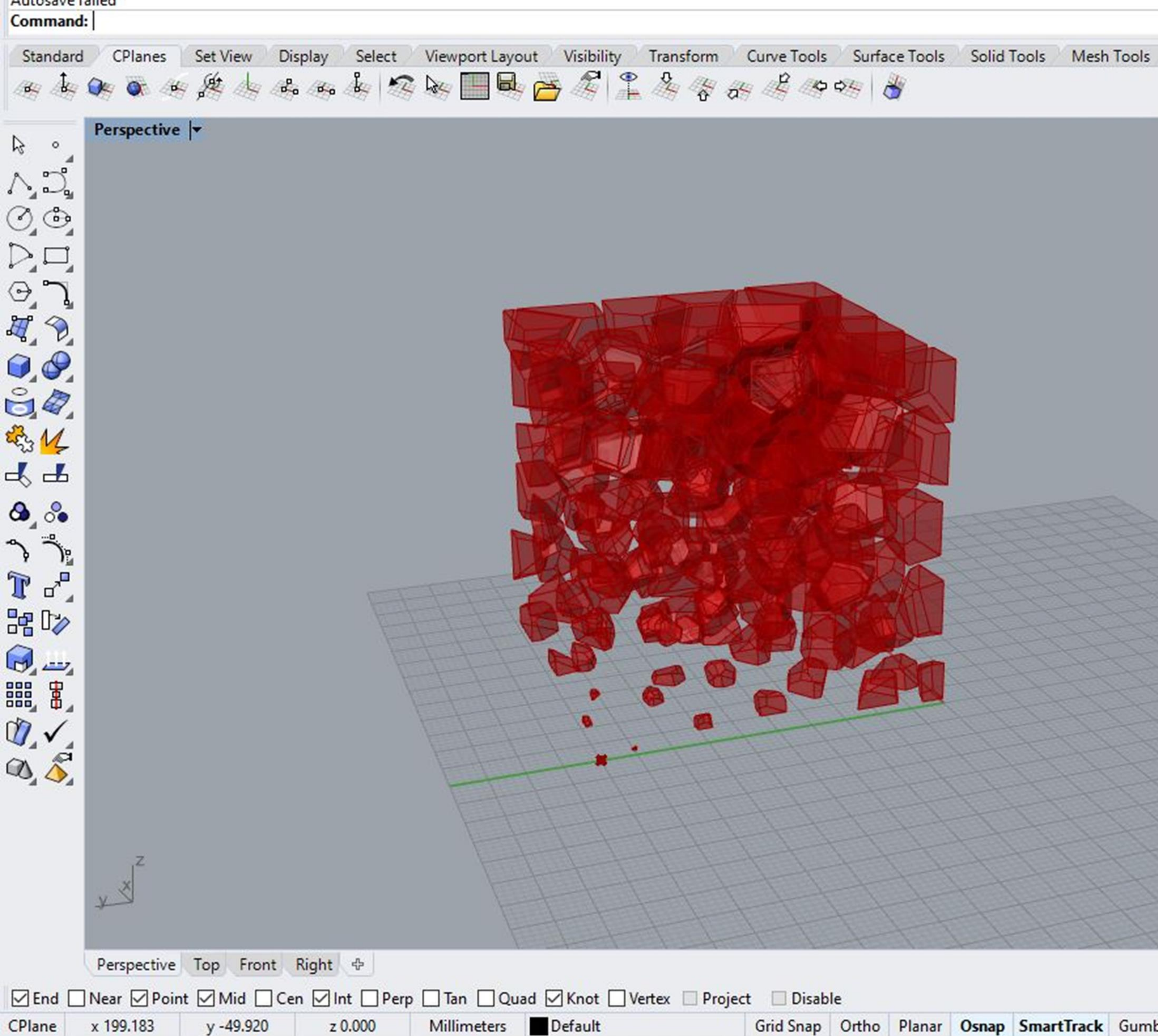
Exerc. 4.1 – Formas Geométricas



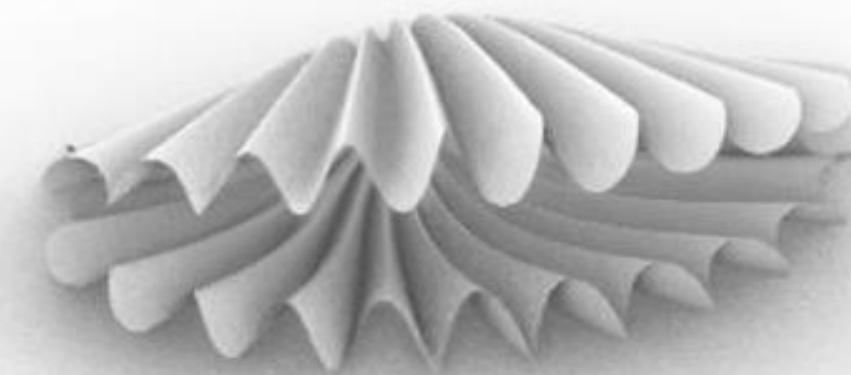
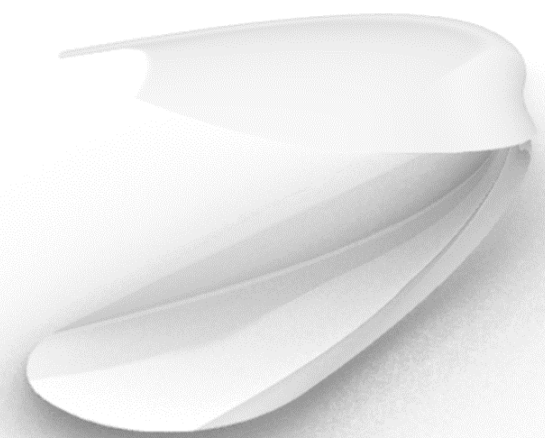
Exerc. 4.1 – Formas Geométricas



Exerc. 4.2 –Cubo Explodido



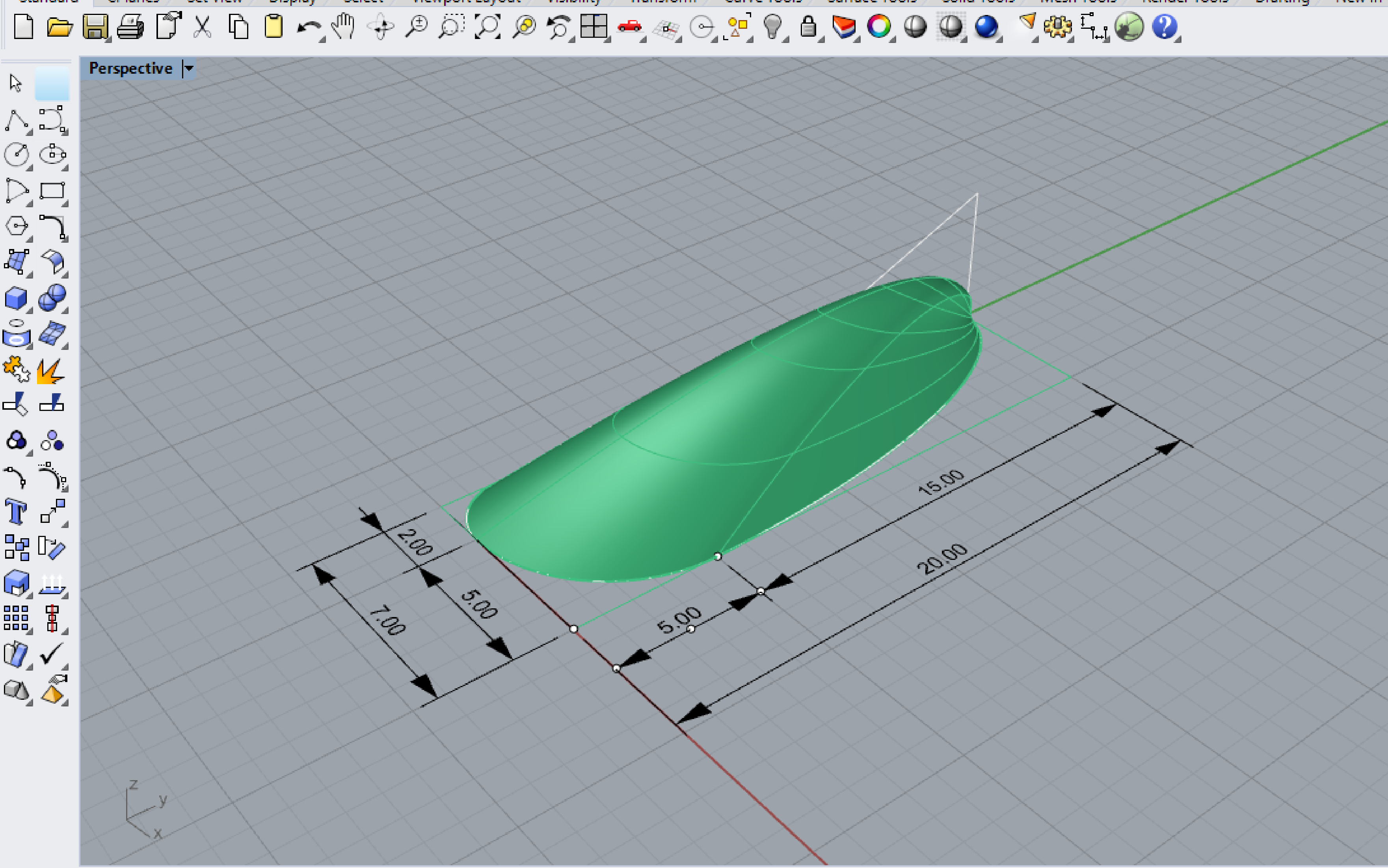
Exerc. 4.2 –Cubo Explodido



Exerc. 5 – Conchas Bivalves



Exerc. 5.1 - Mexilhão



Properties Layers Rendering Materials Libraries Help

Viewport

Title	Perspective
Width	1028
Height	635
Projection	Perspective

Camera

Lens Length	50.0
Rotation	0.0
X Location	34.565
Y Location	-18.04
Z Location	30.946
Distance to Target	51.821
Location	Place...

Target

X Target	1.971
Y Target	8.073
Z Target	0.267
Location	Place...

Wallpaper

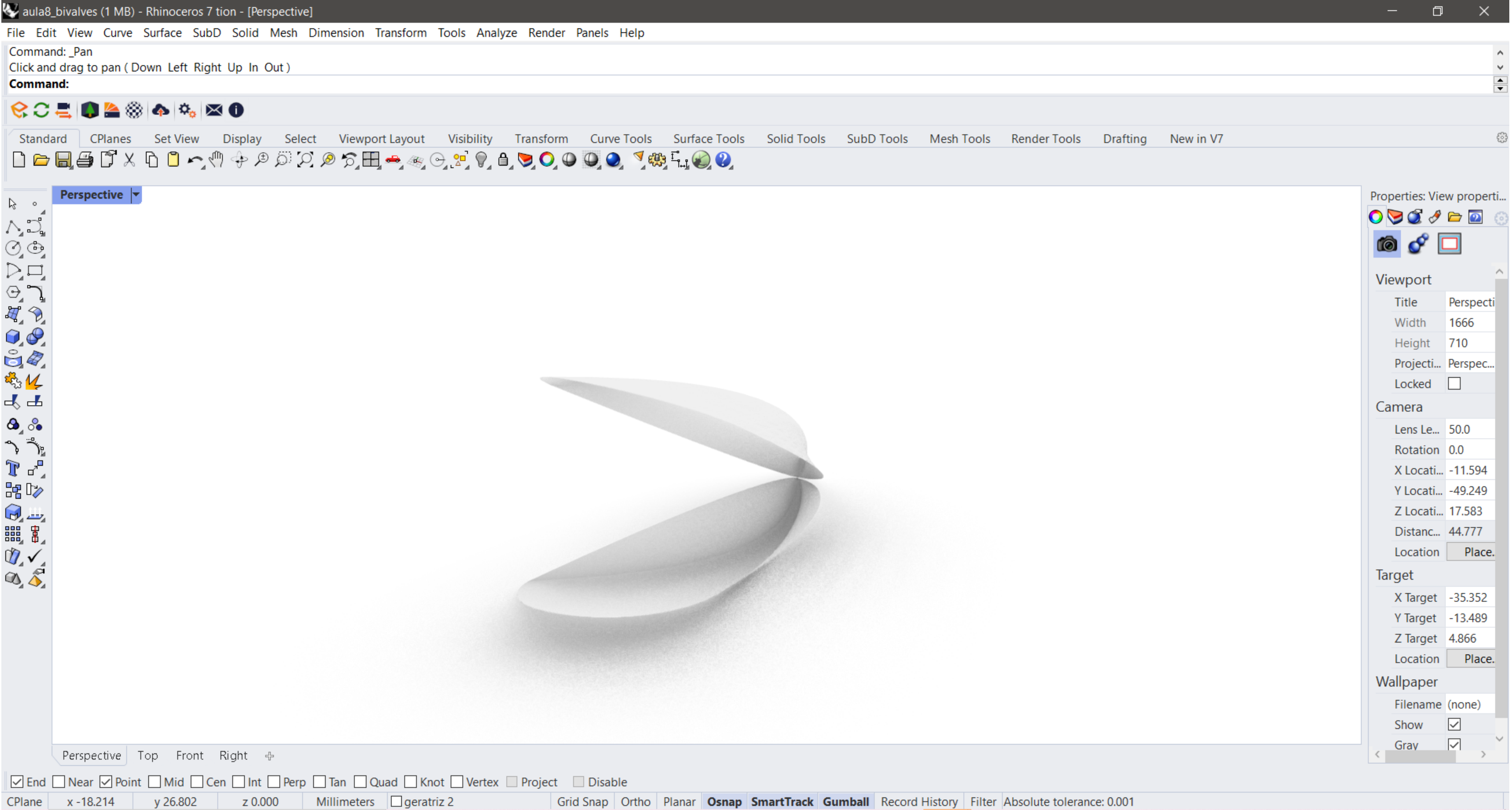
Filename	(none)
Show	<input checked="" type="checkbox"/>
Gray	<input checked="" type="checkbox"/>

Perspective Top Front Right

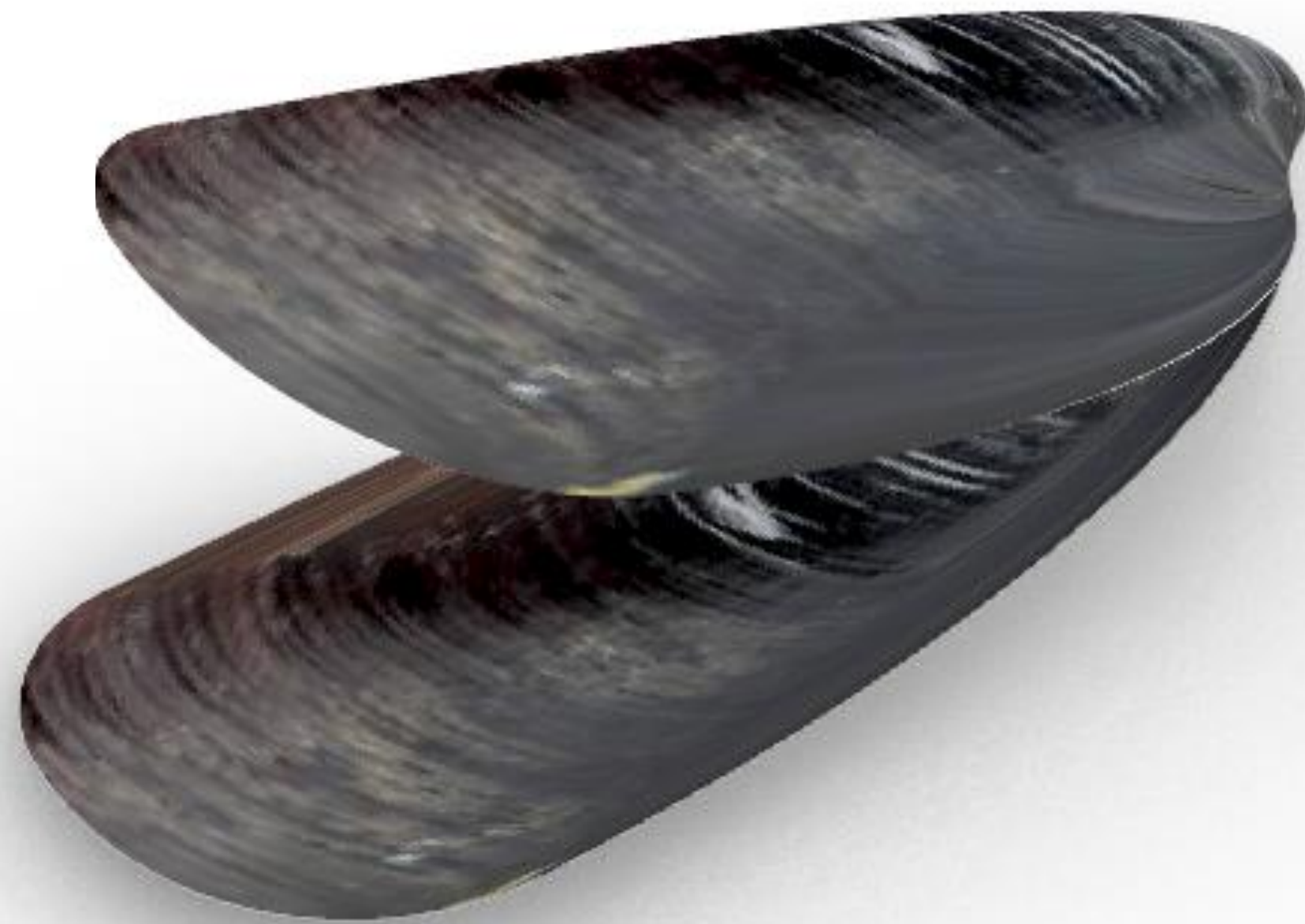
End Near Point Mid Cen Int Perp Tan Quad Knot Vertex Project Disable

CPlane x -28.161 y -0.446 z 0.000 Millimeters Default Grid Snap Ortho Planar **Osnap SmartTrack** Gumball Record History Filter Memory use: 582 MB

Exerc. 5.1 - Mexilhão



Exerc. 5.1 - Mexilhão



Properties Layers Rendering Materials Libraries Help

istockphoto-686218794-612x612

istockphoto-686218794-612x612

Custom

Custom Settings

Color:

Gloss finish: 0 60% 100

Reflectivity: 0% 100

Transparency: 0% 100 IOR: 1.00

Textures

Color

istockphoto-686218794-612x612 ... 100%

Transparency

(click to assign texture) ... 100%

Bump

(click to assign texture) ... 100%

Environment

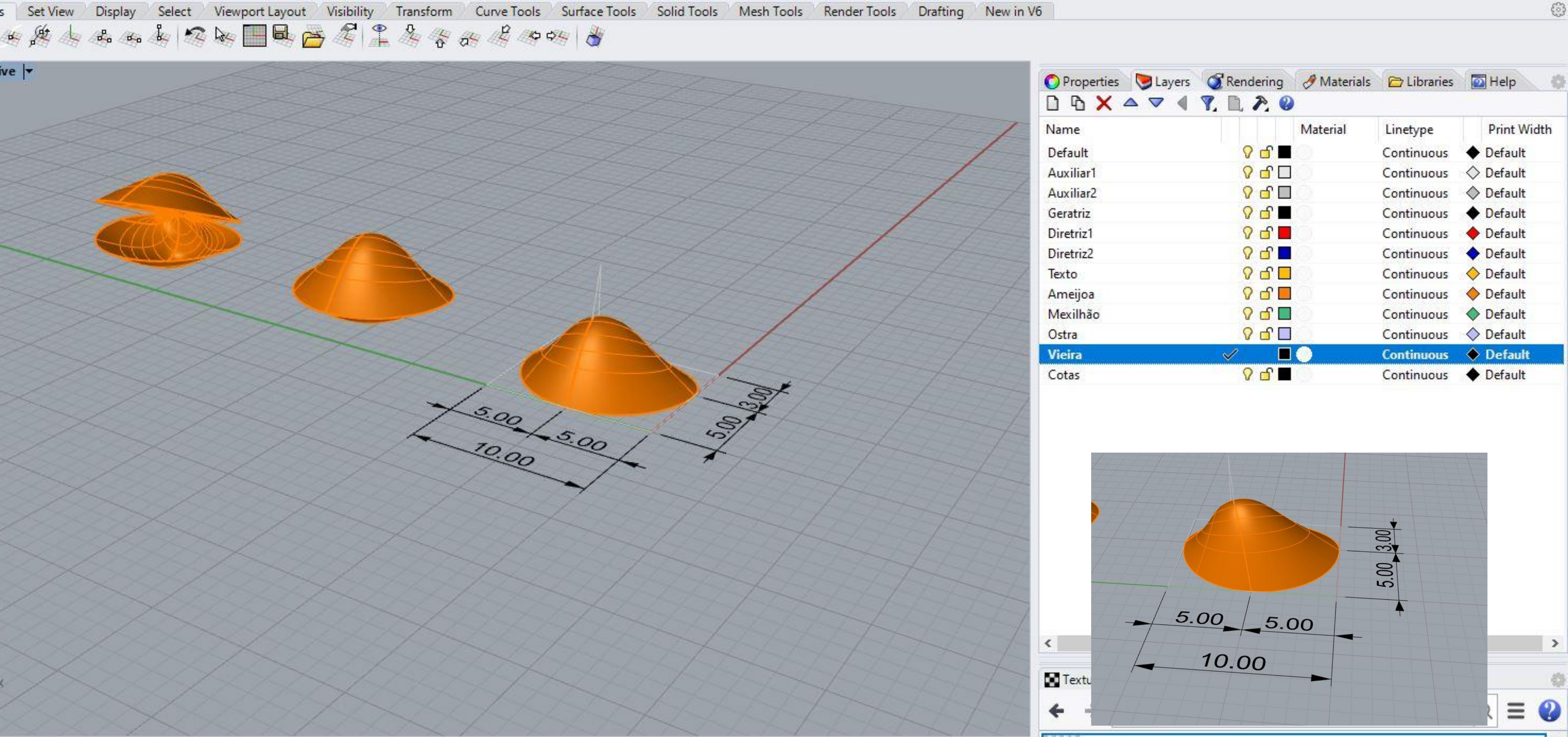
(click to assign texture) ... 100%

Advanced Settings

Exerc. 5.1 - Mexilhão



Exerc. 5.2 - Ameijoas



Exerc. 5.2 - Ameijoia



Exerc. 5.2 - Ameijoa



Properties Layers Rendering Materials Libraries Help

Custom

White Transparent Plastic

Gloss finish: 0% 100

Reflectivity: 0% 100

Transparency: 0% 100 IOR: 1.00

Textures

Color

istockphoto-471387459-612x612 91%

Transparency

(click to assign texture) 100%

Bump

8919328358430 100%

Environment

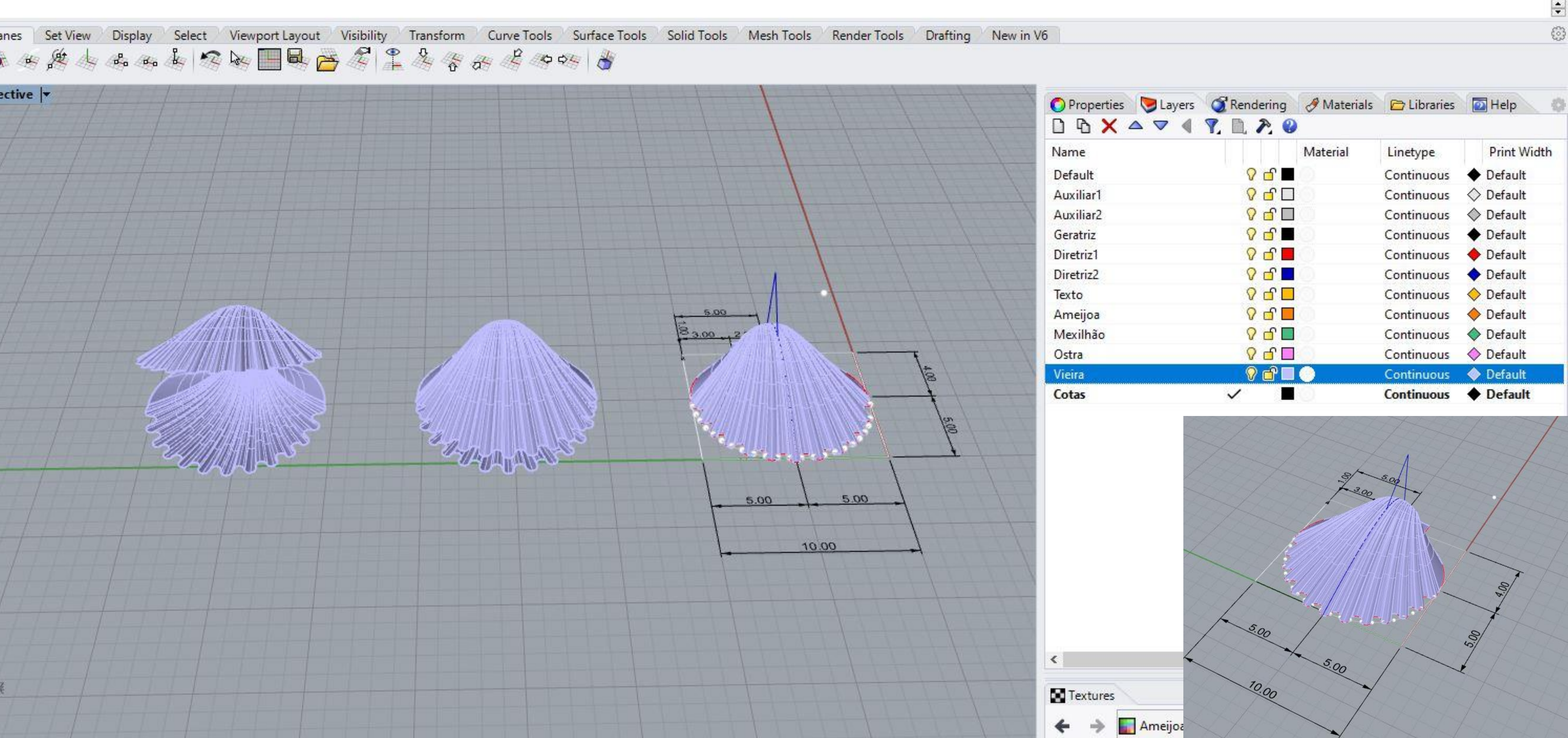
(click to assign texture) 100%

Advanced Settings

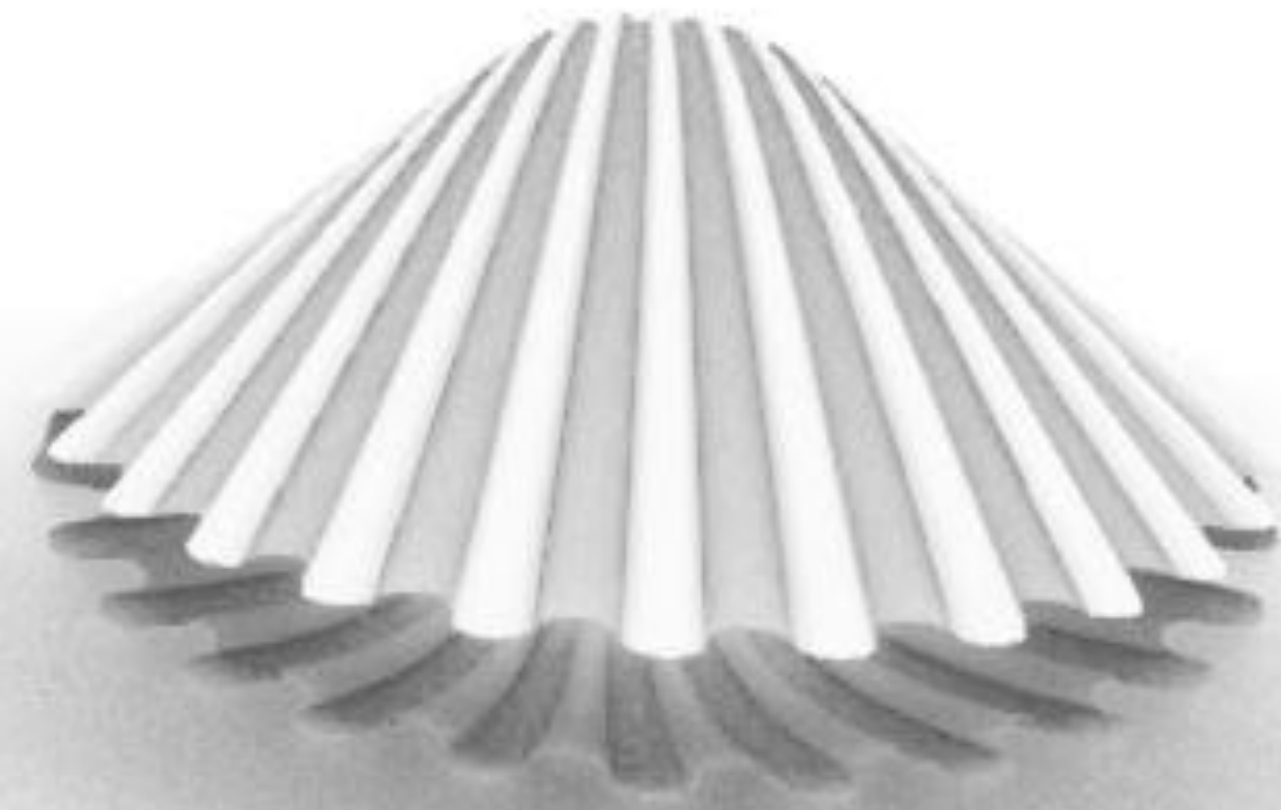
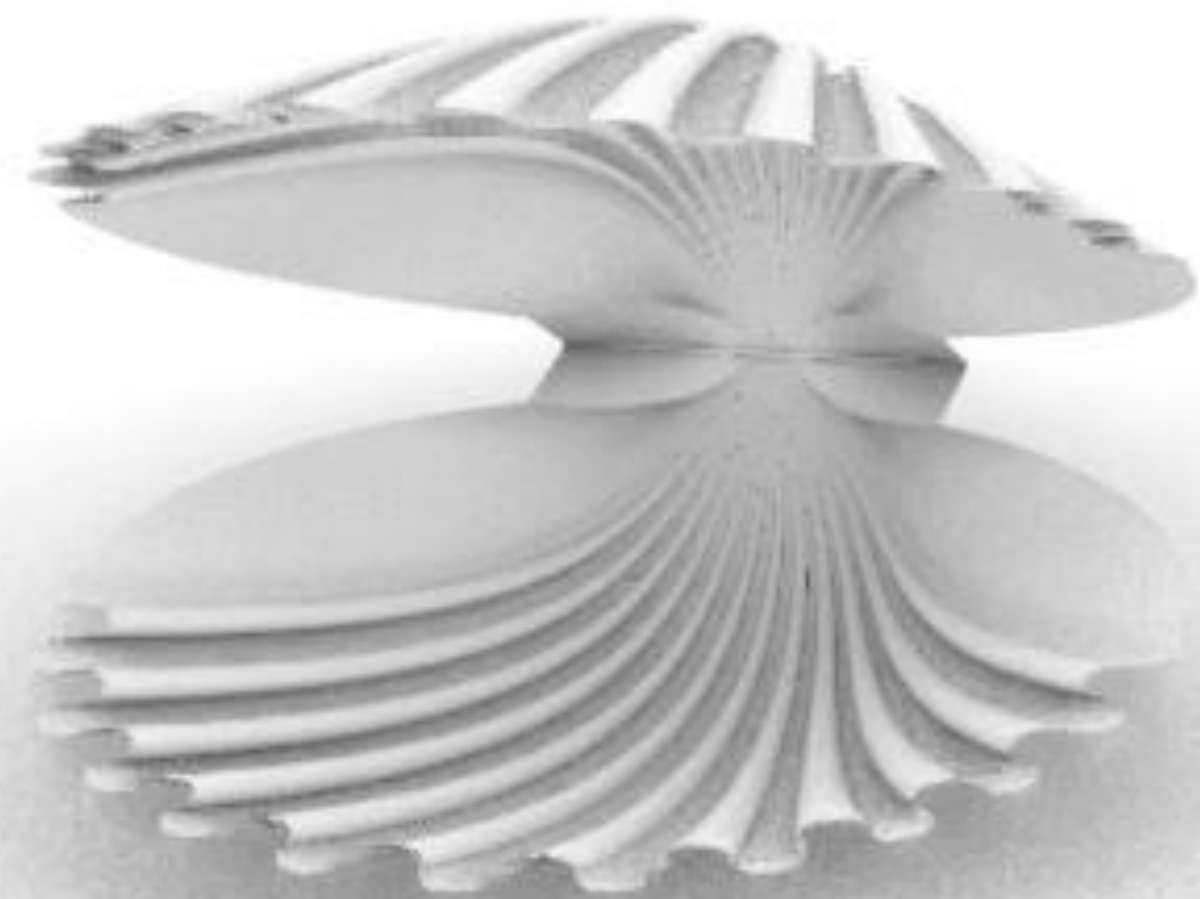
Exerc. 5.2 - Ameijoas



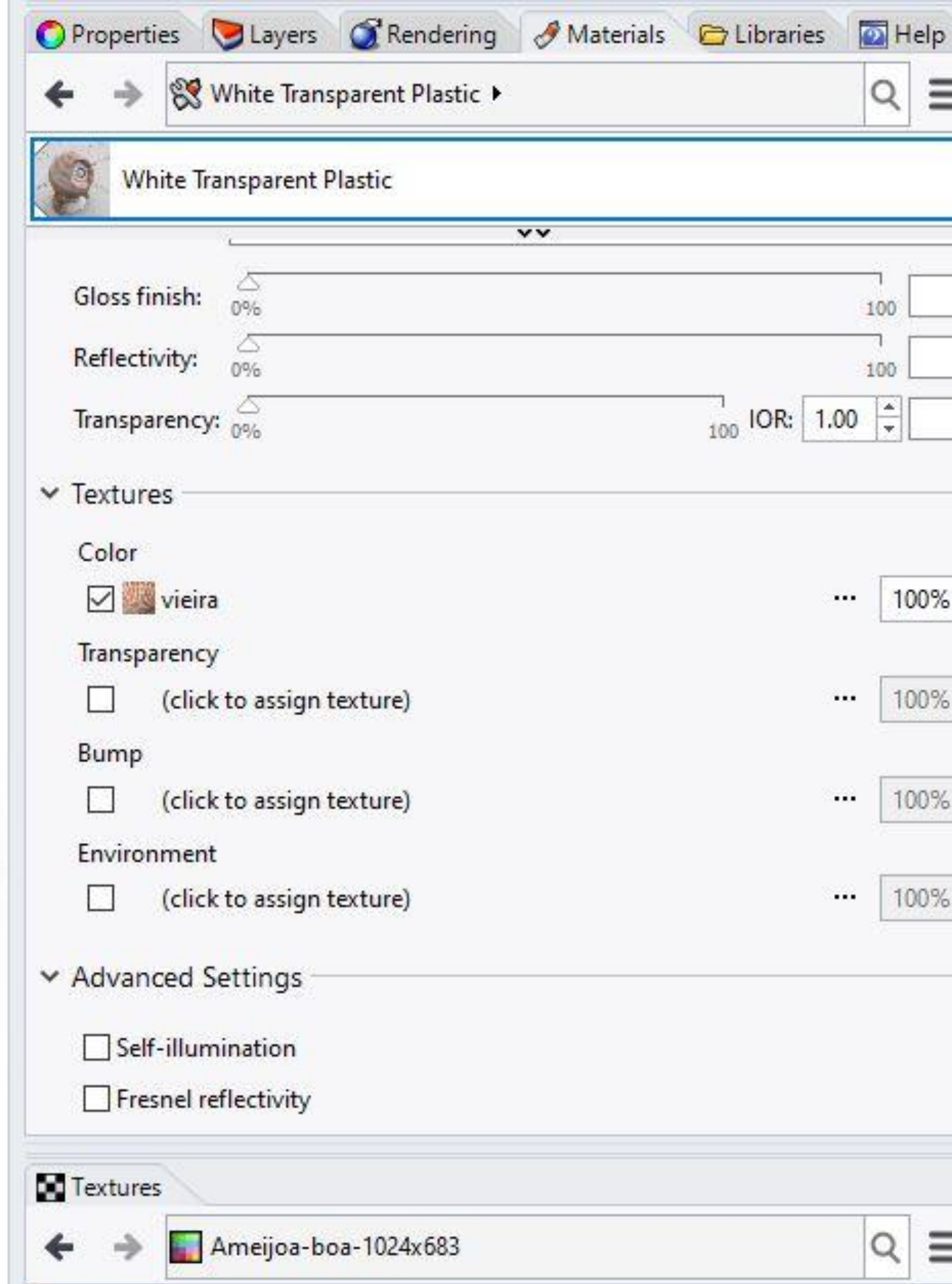
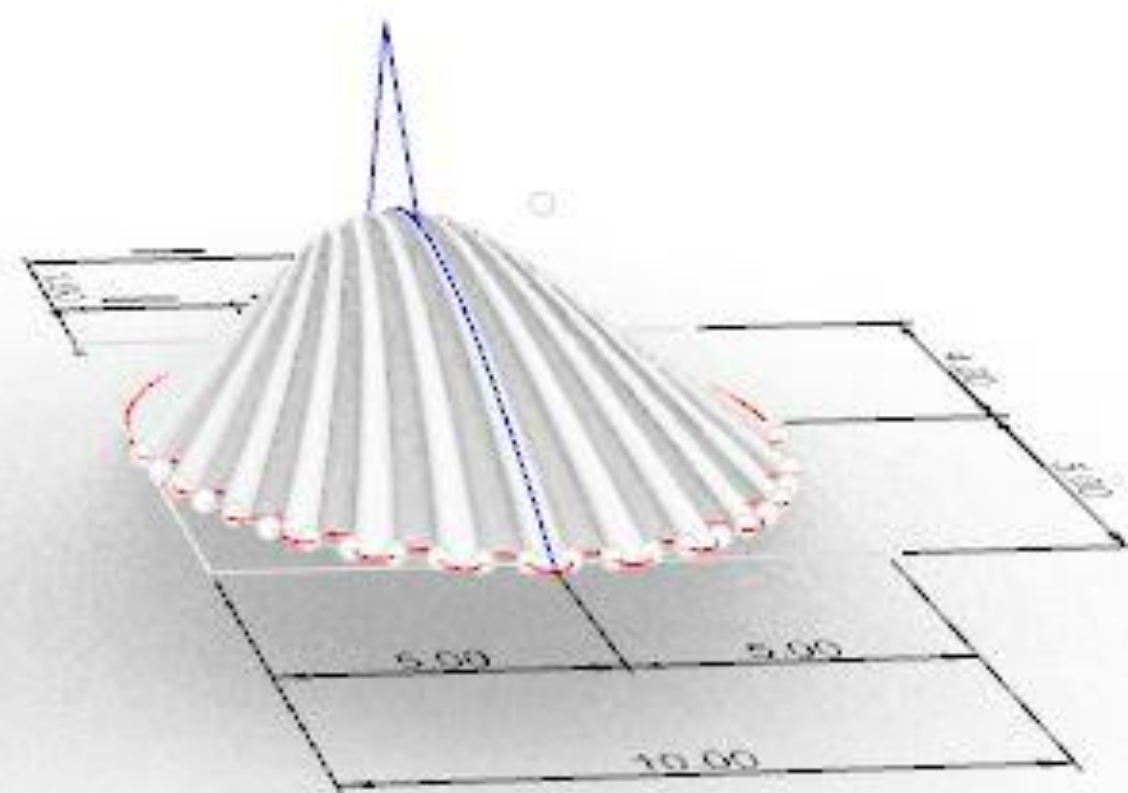
Exerc. 5.3 - Vieira



Exerc. 5.3 - Vieira



Exerc. 5.3 - Vieira



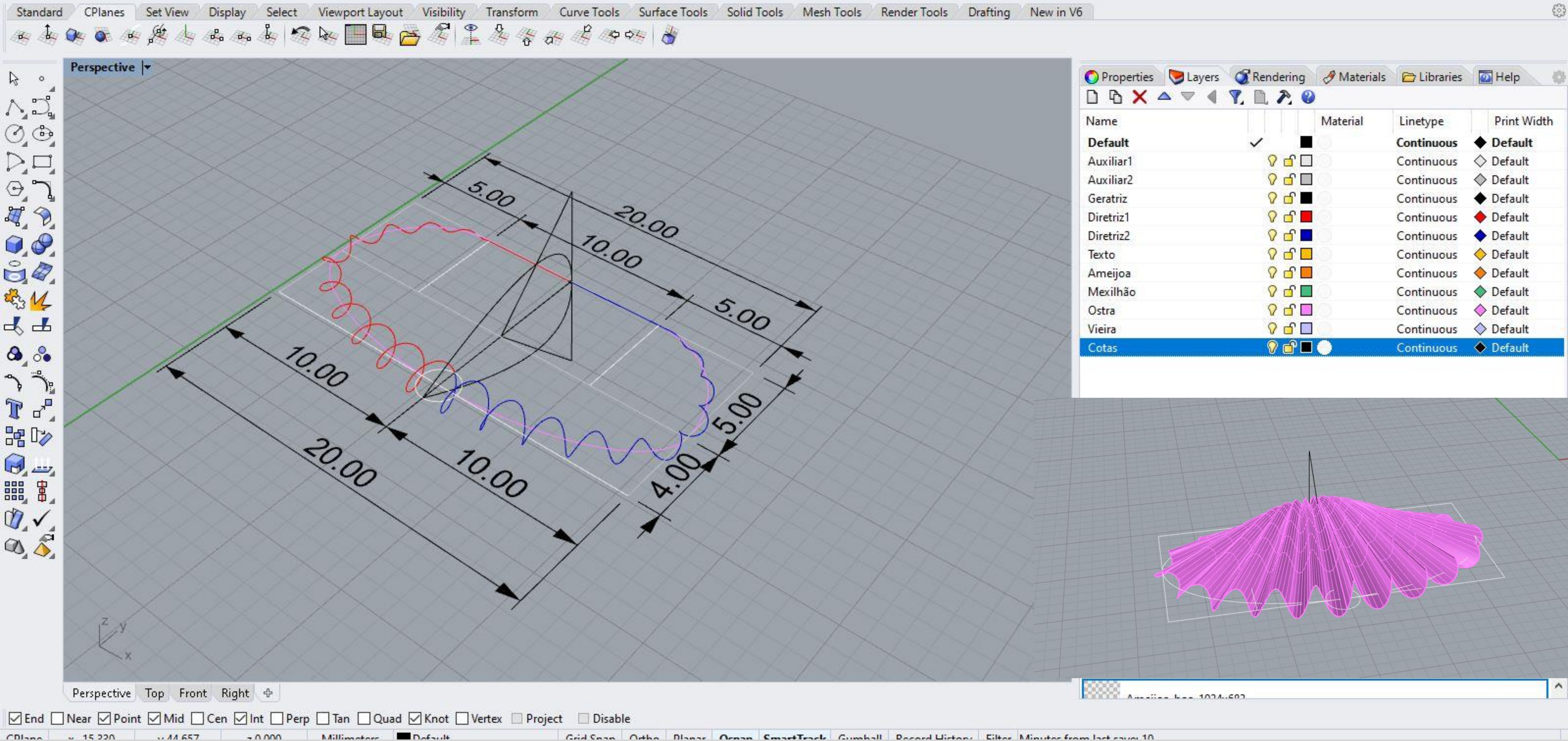
Exerc. 5.3 - Vieira



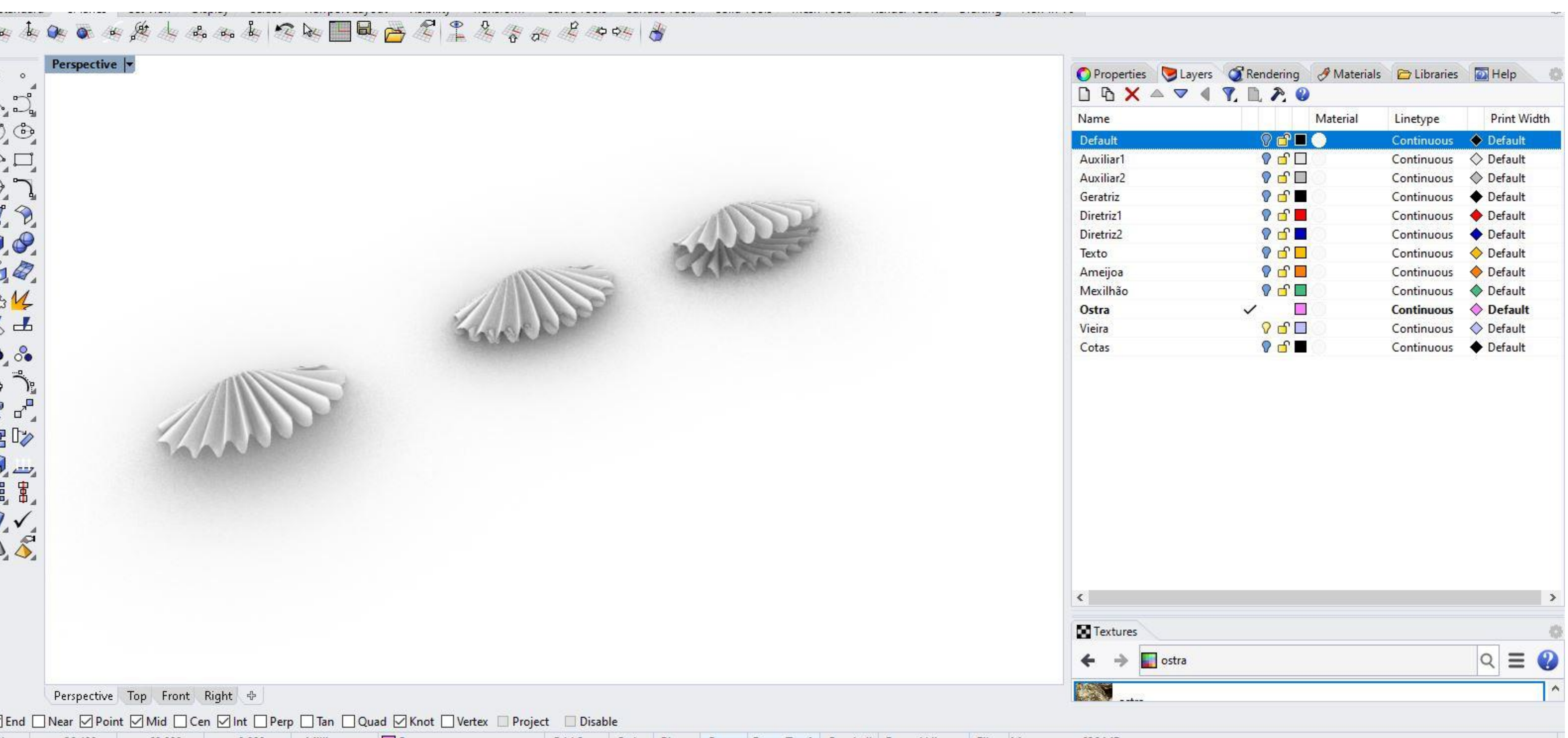
Exerc. 5.3 - Vieira



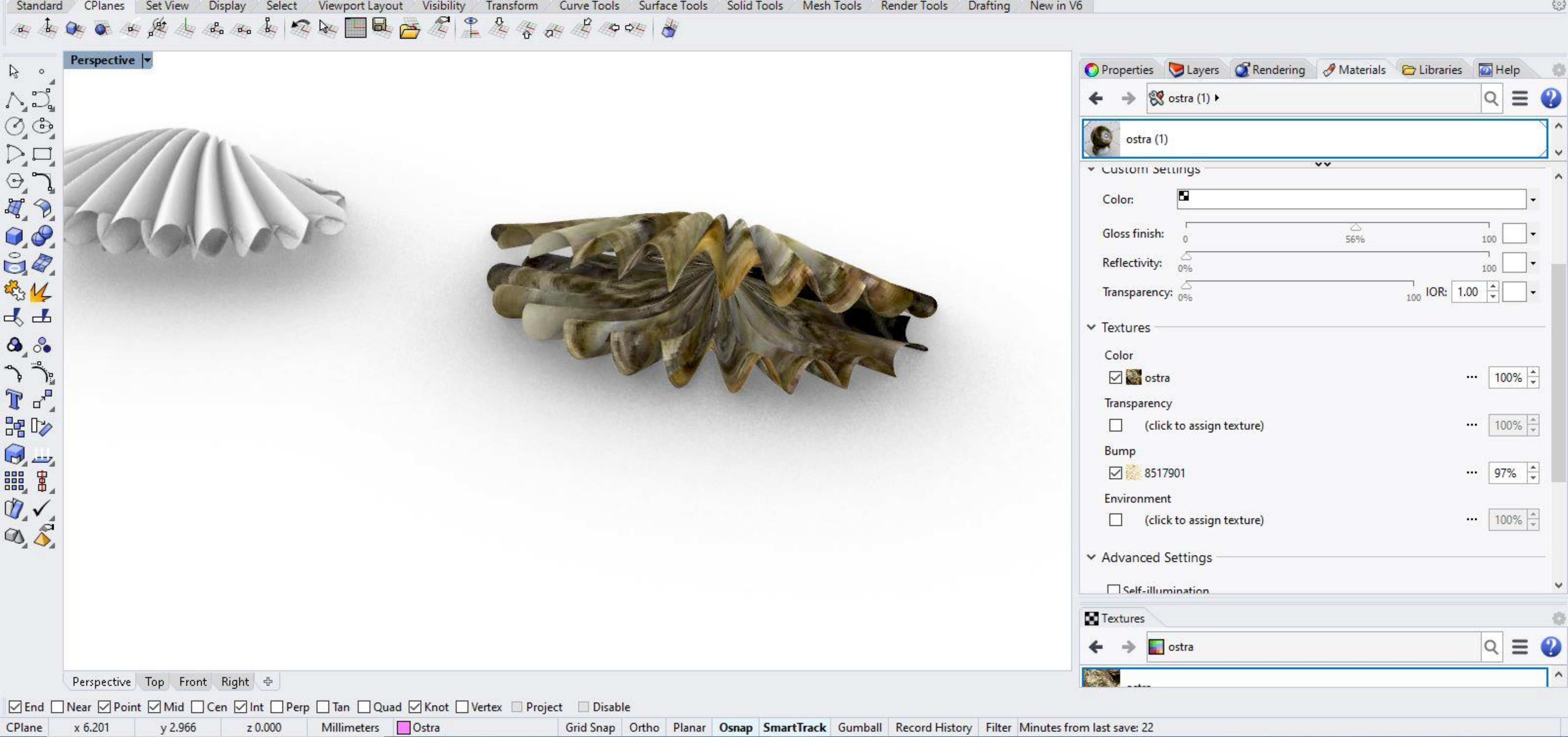
Exerc. 5.4 - Ostra



Exerc. 5.4 - Ostra



Exerc. 5.4 - Ostra



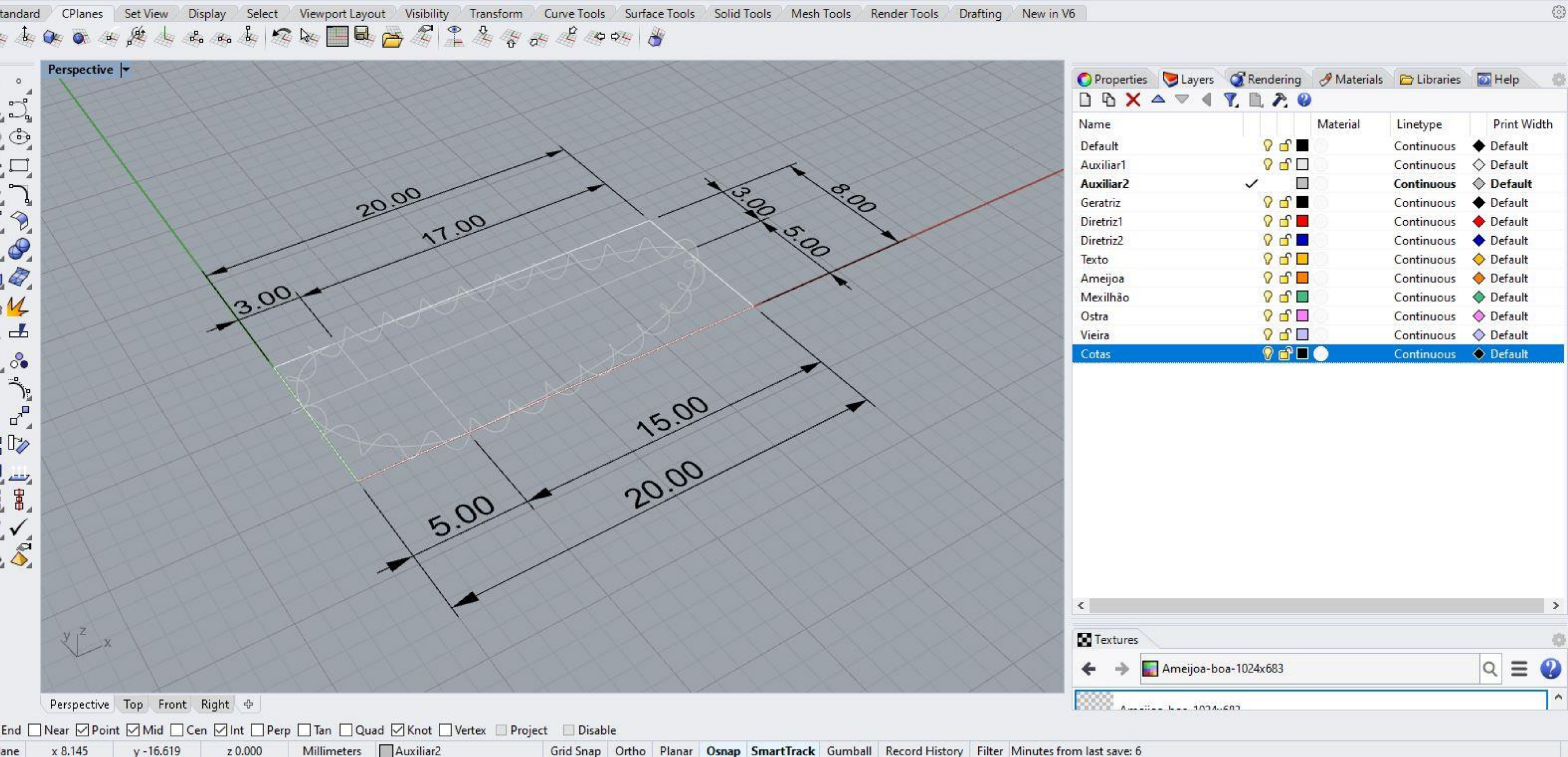
Exerc. 5.4 - Ostra



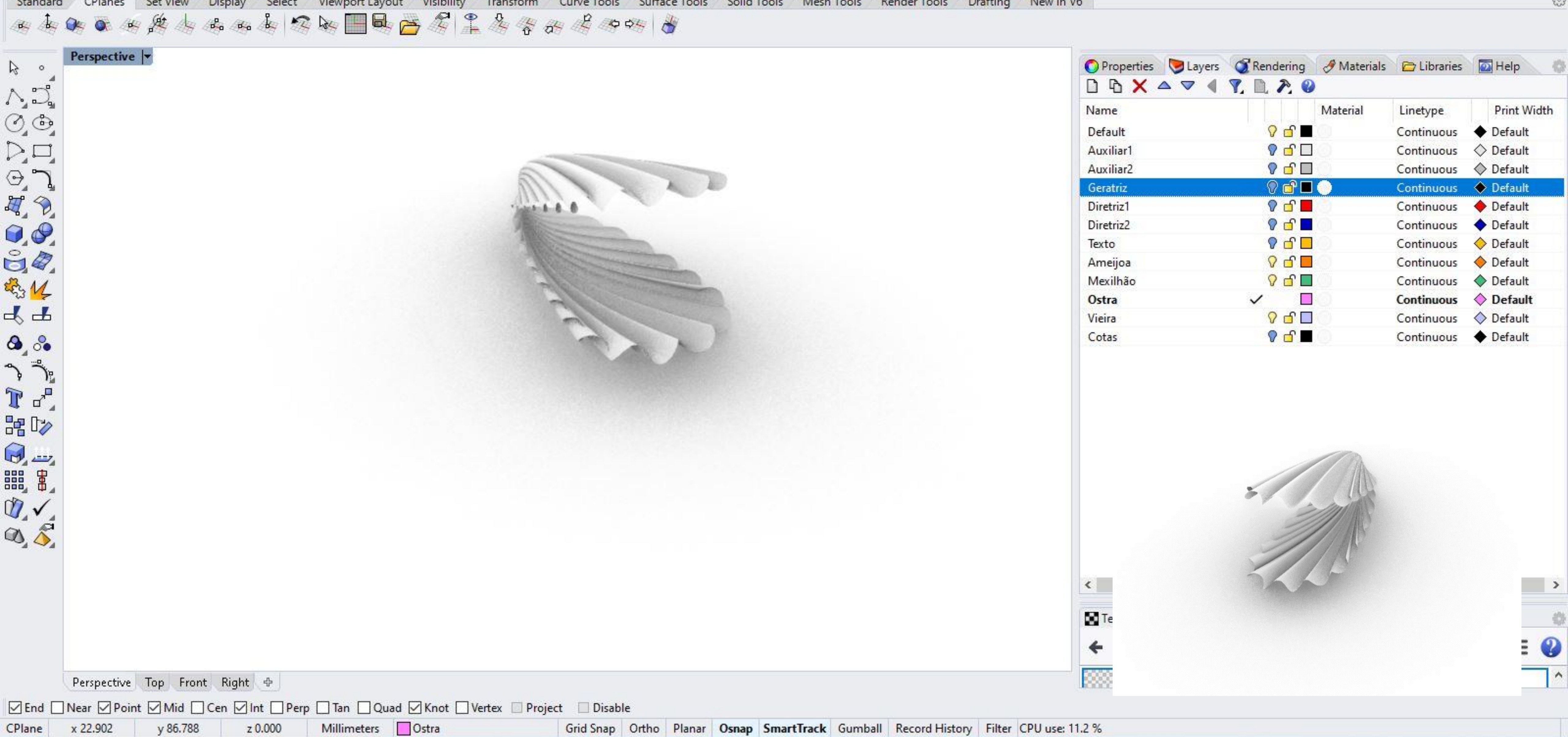
Exerc. 5.4 - Ostra



Exerc. 5.5 - Ostra



Exerc. 5.5 - Ostra



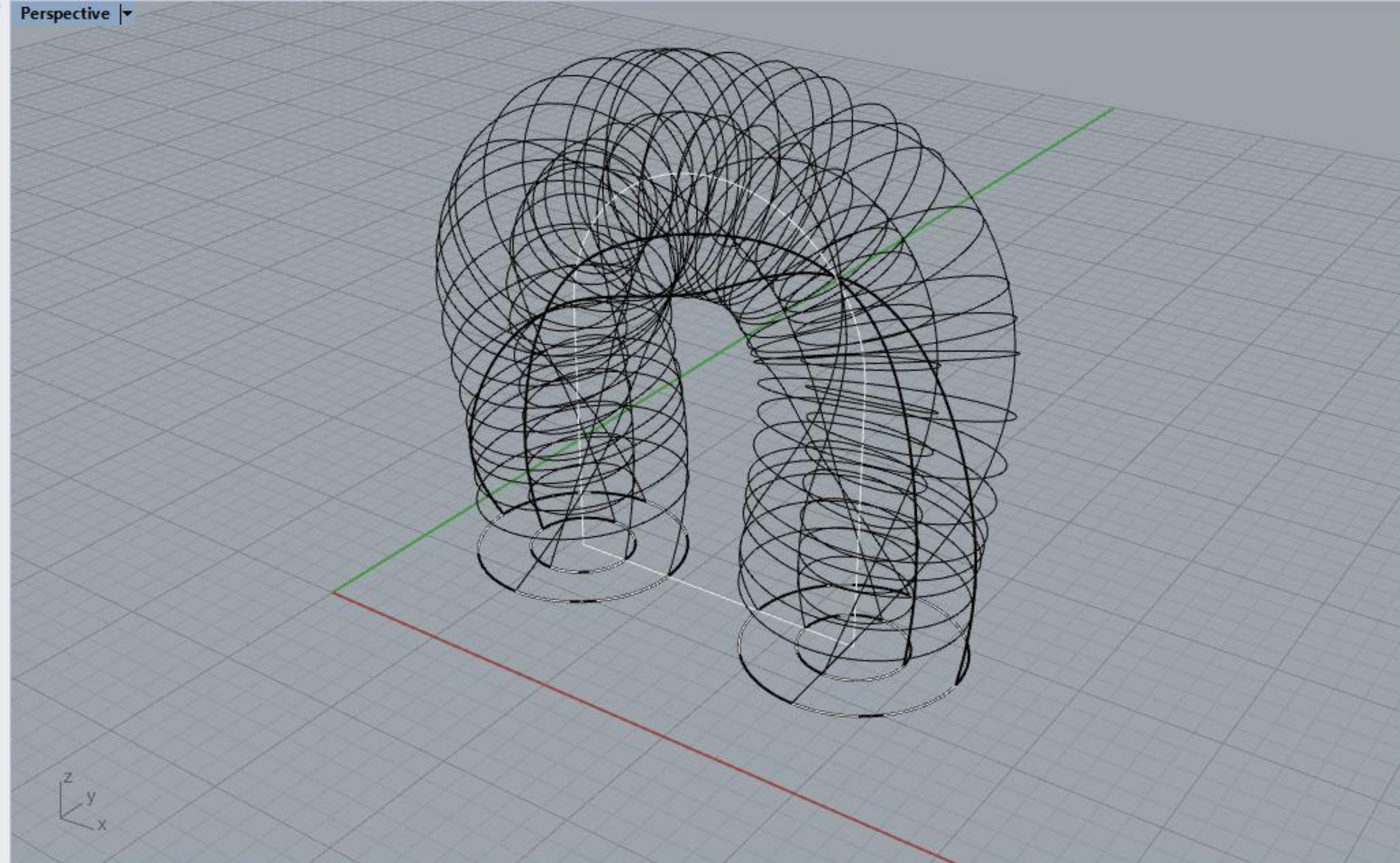
Exerc. 5.5 - Ostra



Exerc. 5.5 - Ostra



Exerc. 6 – Corais



Properties Layers Rendering Materials Libraries Help

(unnamed)

(unnamed)

Name

Type

Custom

Custom Settings

Color: [Color Picker]

Gloss finish: 0% 100

Reflectivity: 0% 100

Transparency: 0 74% 100 IOR: 1.00

Textures

Color [] (click to assign texture) 100%

Transparency [] (click to assign texture) 100%

Textures

No selection

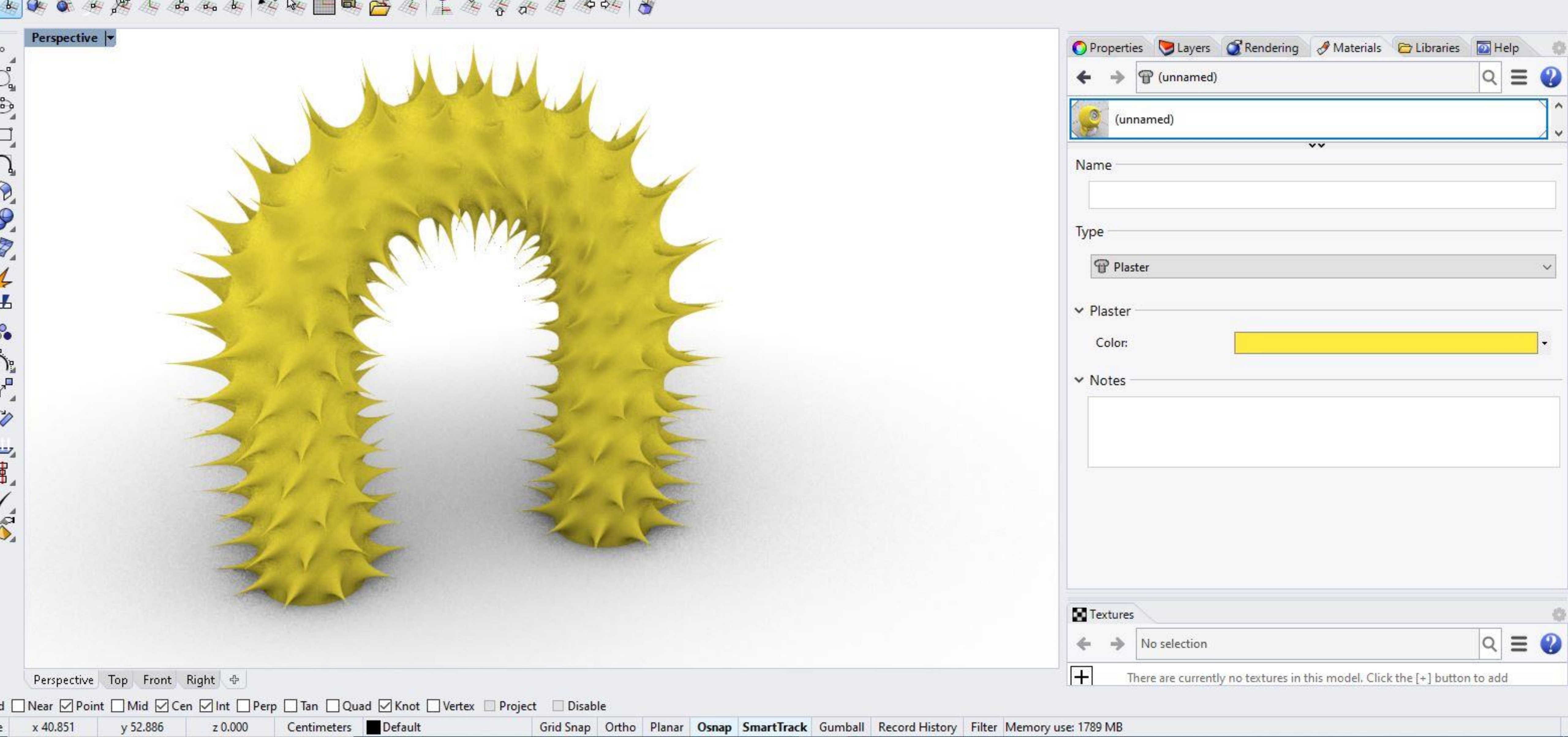
There are currently no textures in this model. Click the [+] button to add

Perspective Top Front Right

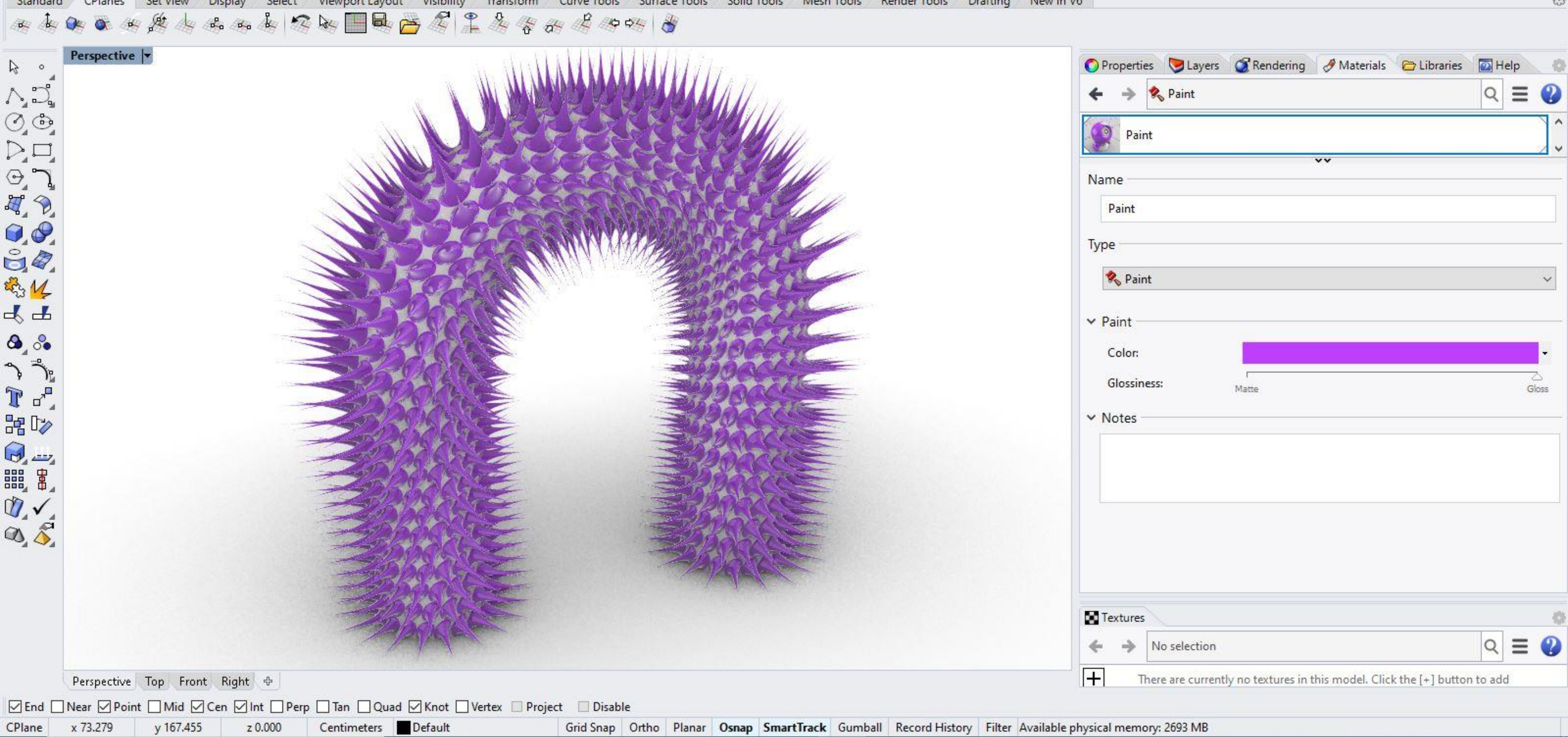
Near Point Mid Cen Int Perp Tan Quad Knot Vertex Project Disable

x -67.193 y 45.975 z 0.000 Millimeters Default Grid Snap Ortho Planar Osnap SmartTrack Gumball Record History Filter Absolute tolerance: 0.001

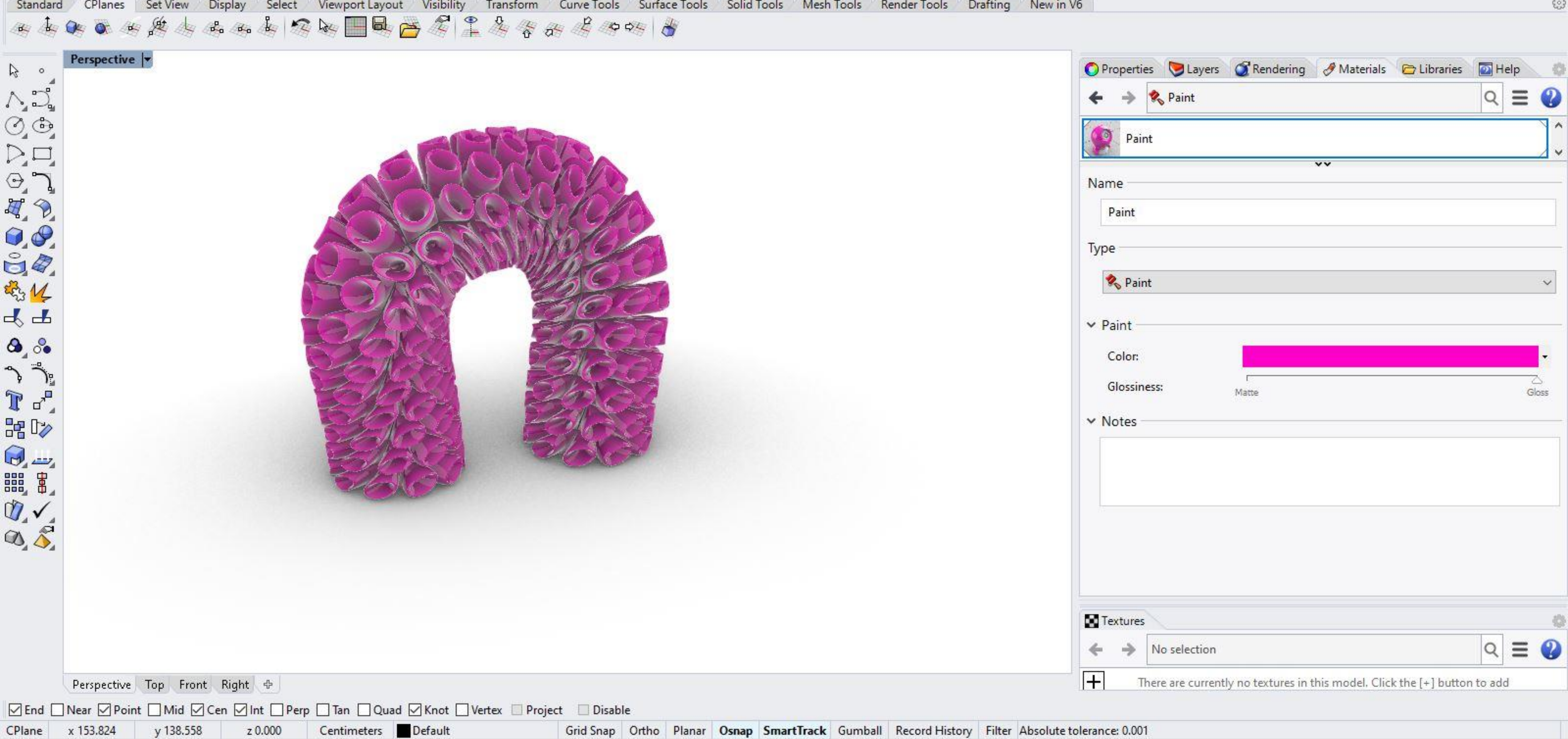
Exerc. 6.1 – Base



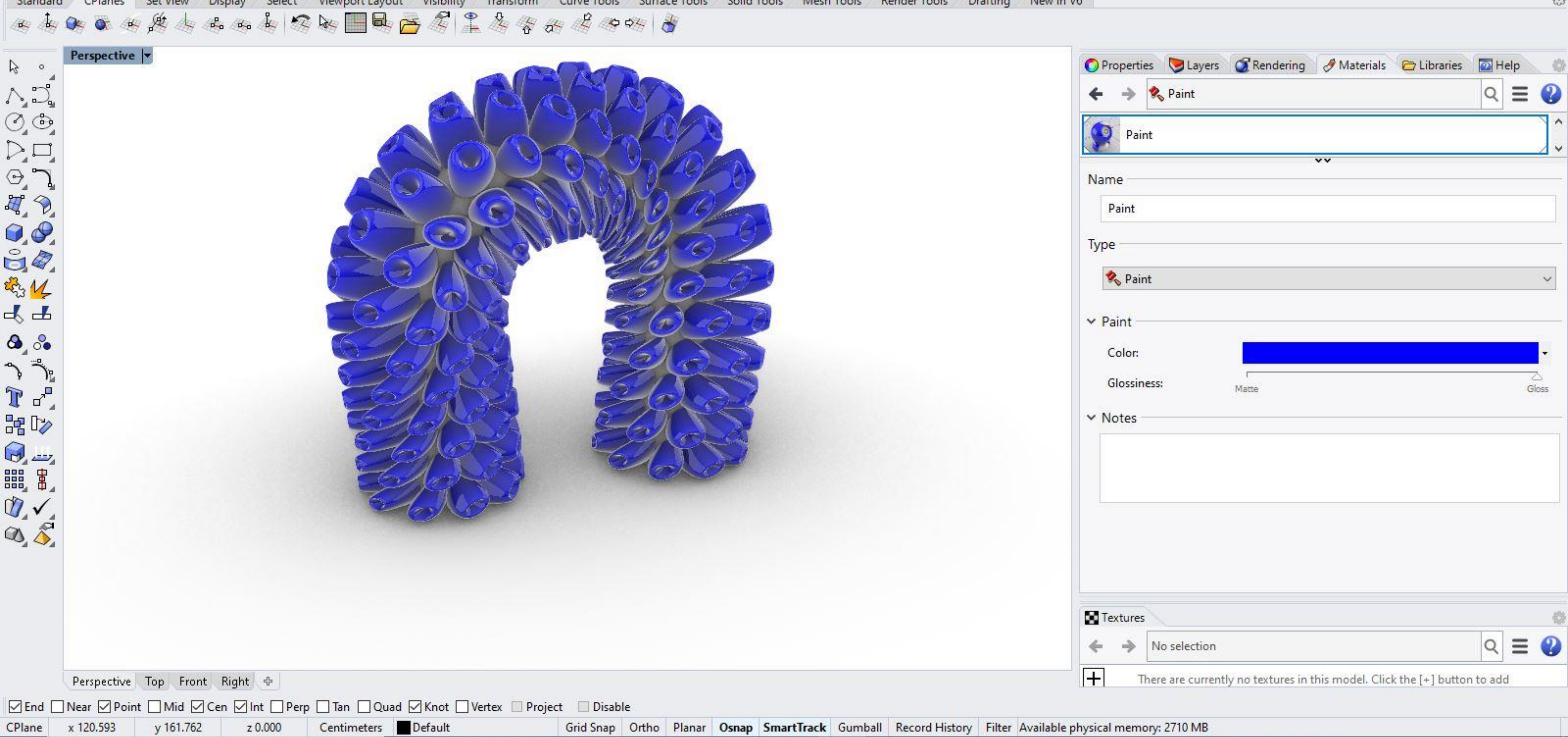
Exerc. 6.1 – Coral Espinhoso



Exerc. 6.2 – Coral Espinho



Exerc. 6.3 – Coral Tentacular



Exerc. 6.4 – Coral Tentacular