

Modelação Geométrica e Generativa

20241326

HANNAH VAN VESSEN

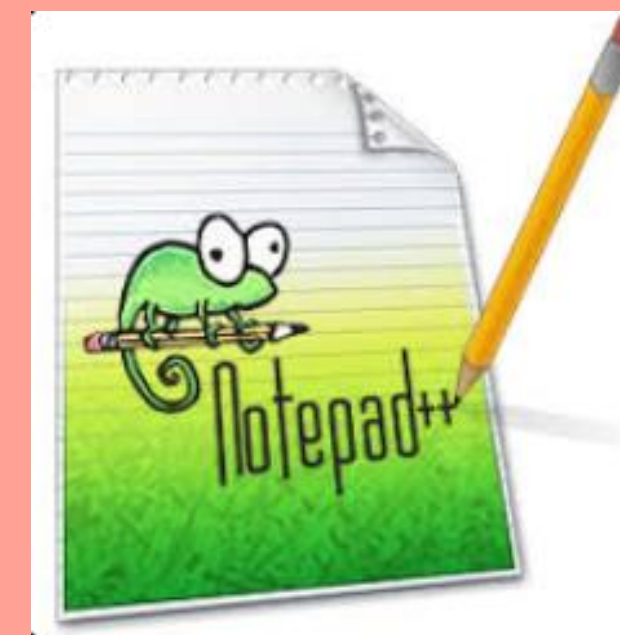
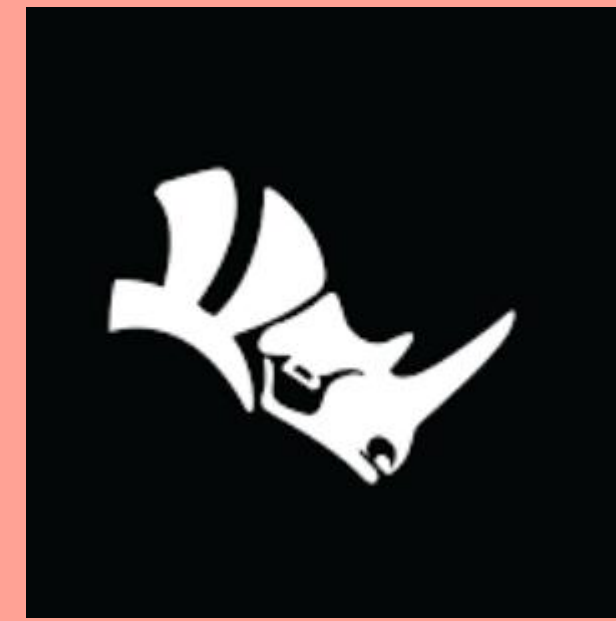


ÍNDICE

1. AULA 1 - APRESENTAÇÃO DA DISCIPLINA
2. AULA 2 – INTRODUÇÃO AO RHINO
 - Exercício 1 - CUBO TRUNCADO
3. AULA 3 – FINALIZAÇÃO DO EXERCÍCIO 1 E INÍCIO DO EXERCÍCIO 2 E 3
 - Exercício 2 – CUBO OCTAEDRO
 - Exercício 3 – DODECAEDRO TRUNCADO
4. AULA 4 – CONTINUAÇÃO DO EXERCÍCIO 3
 - Exercício 3 – DODECAEDRO TRUNCADO
5. AULA 5 – LAYOUT RHINO 3D
6. AULA 6 – ABÓBODAS
7. AULA 7 – CONTINUAÇÃO DAS ABÓBODAS
8. AULA 8 – INTRODUÇÃO AO GRASSHOPPER
9. AULA 9 – MOLUSCOS E ABÓBODAS GRASSHOPPER
10. AULA 10 - TORUS GRASSHOPPER E SUPERFÍCIE

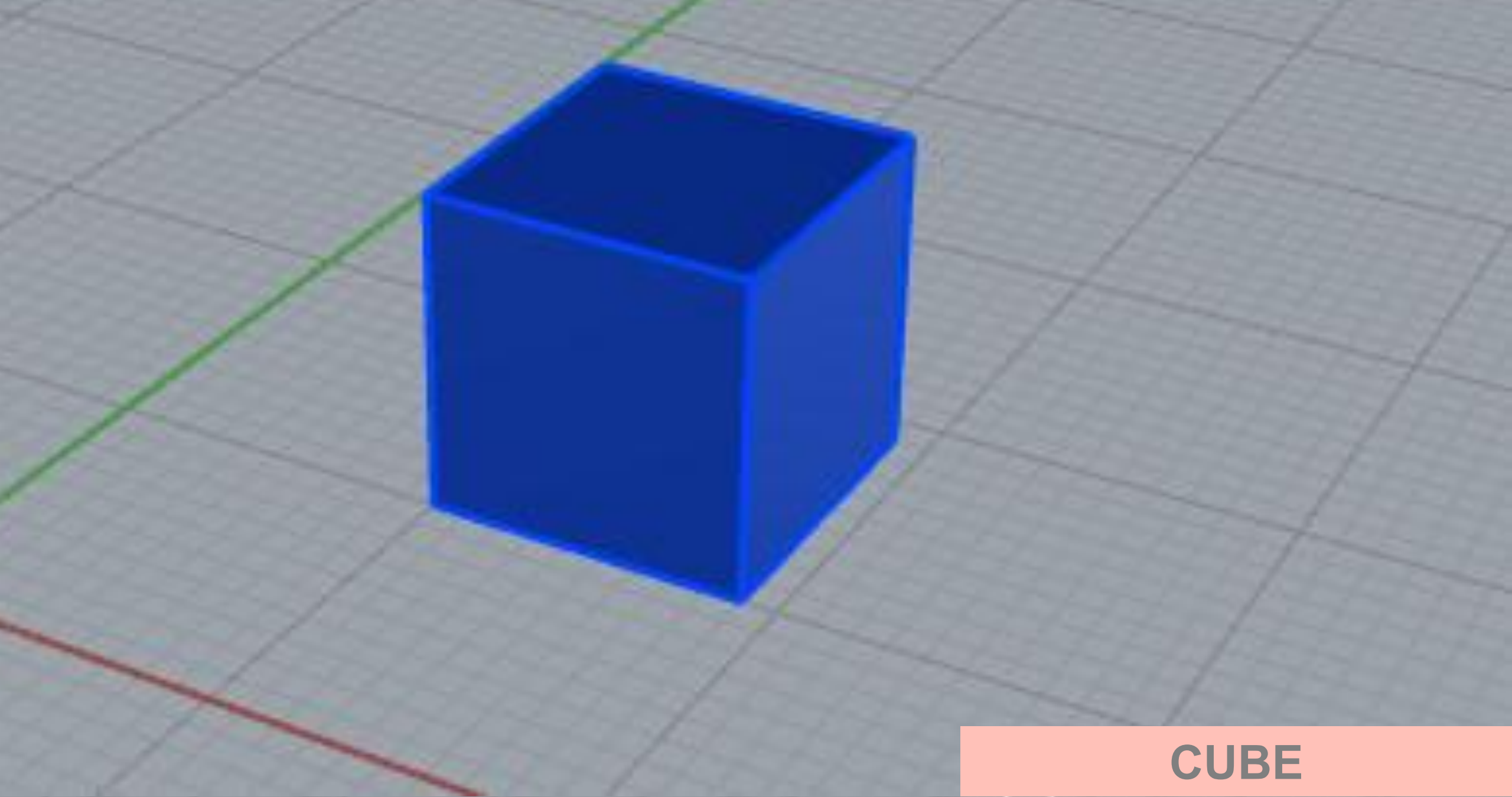
Softwares que vamos utilizar

- RHINO 3D
- NOTEPAD++ OU SUBLIME
- GRASSHOPPER
- FILEZILLA

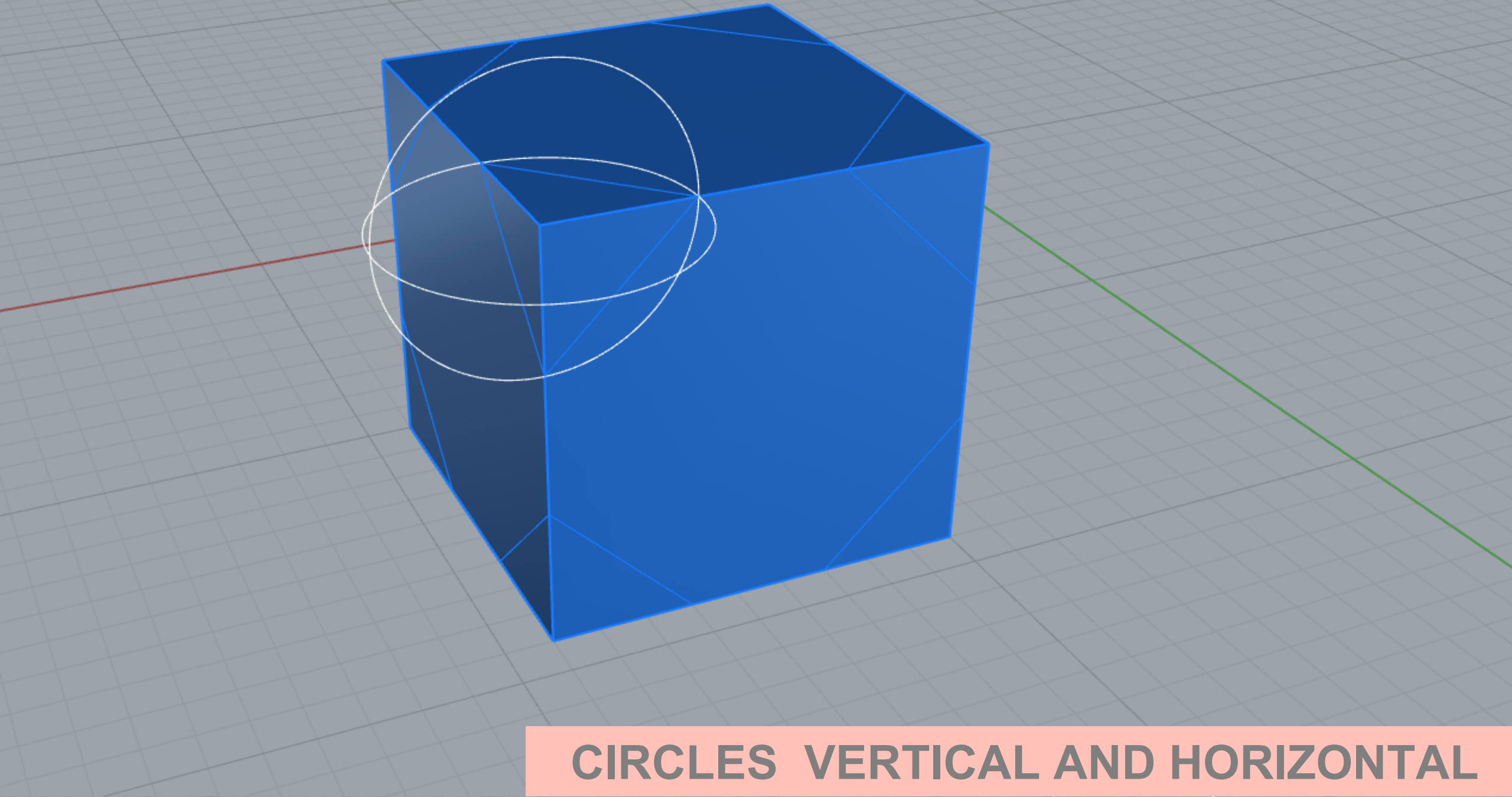


OPERAÇÕES GEOMÉTRICAS DE MOVIMENTO

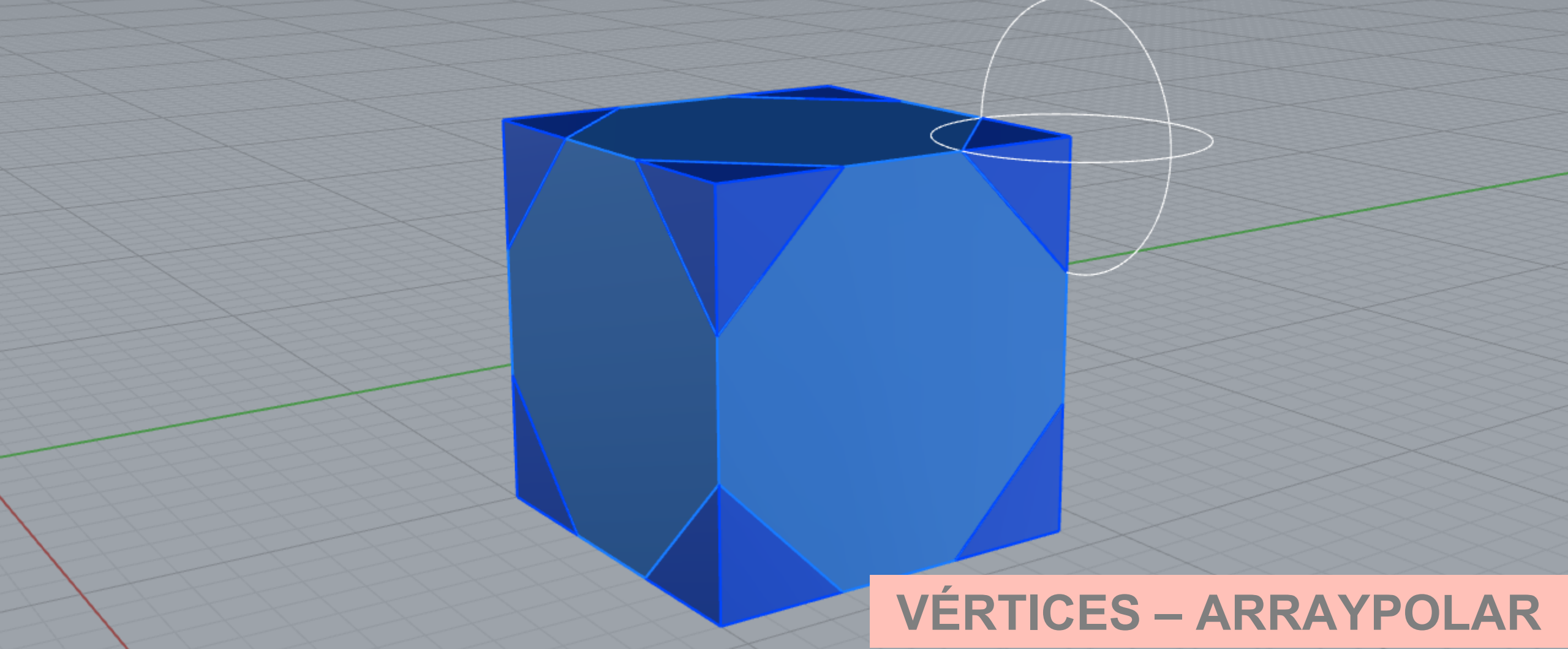
Aula 1 – APRESENTAÇÃO DA DISCIPLINA



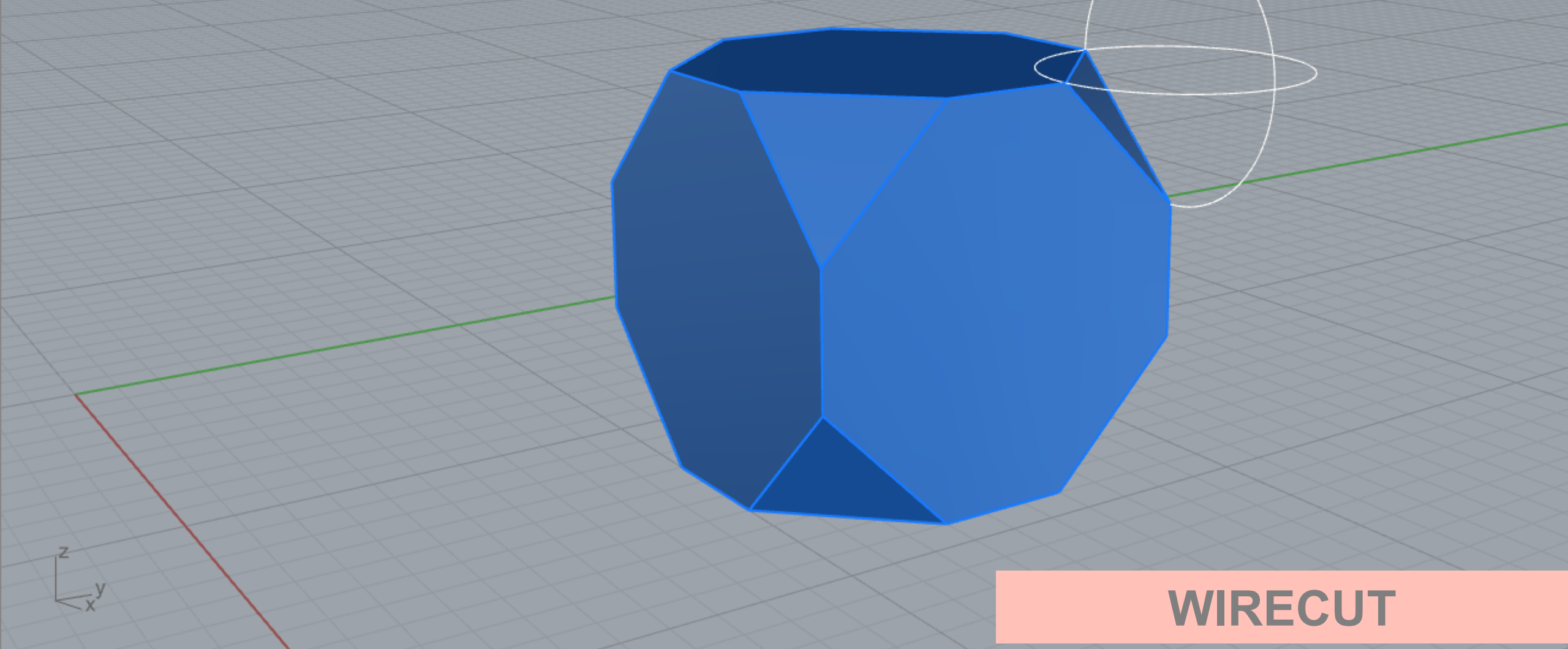
CUBE



CIRCLES VERTICAL AND HORIZONTAL

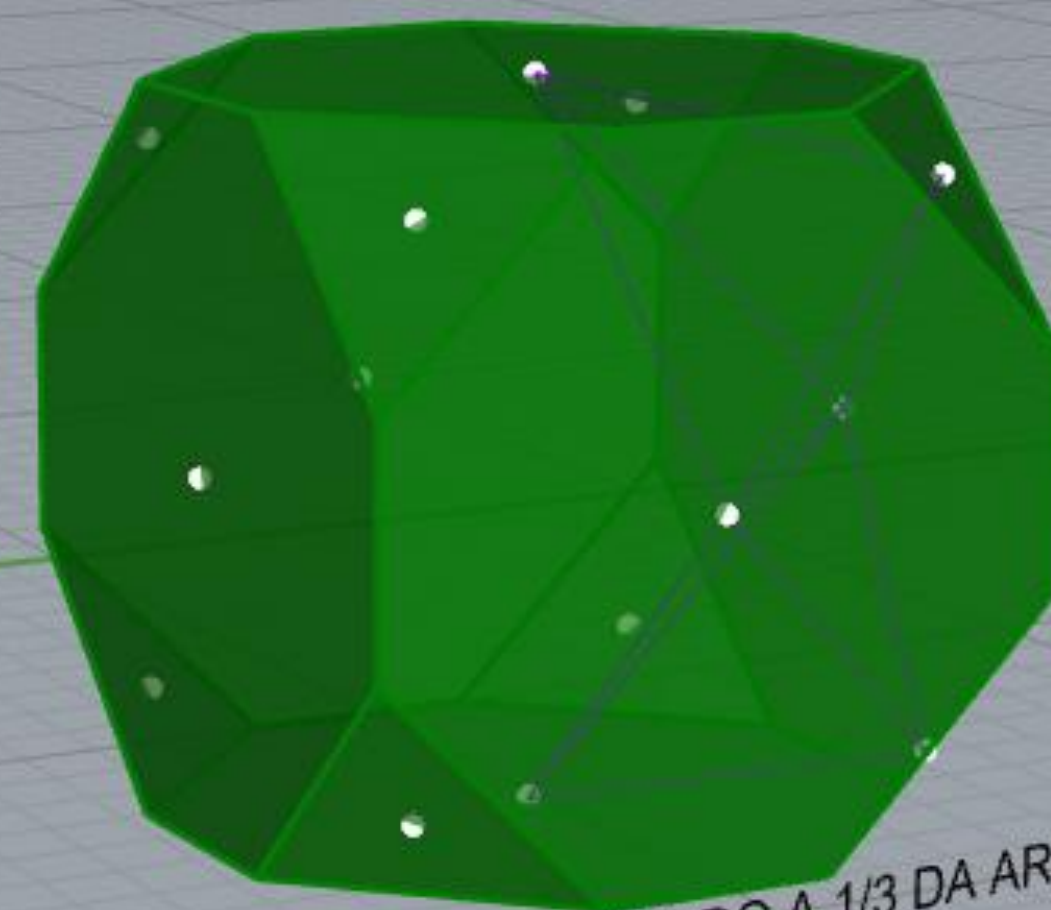
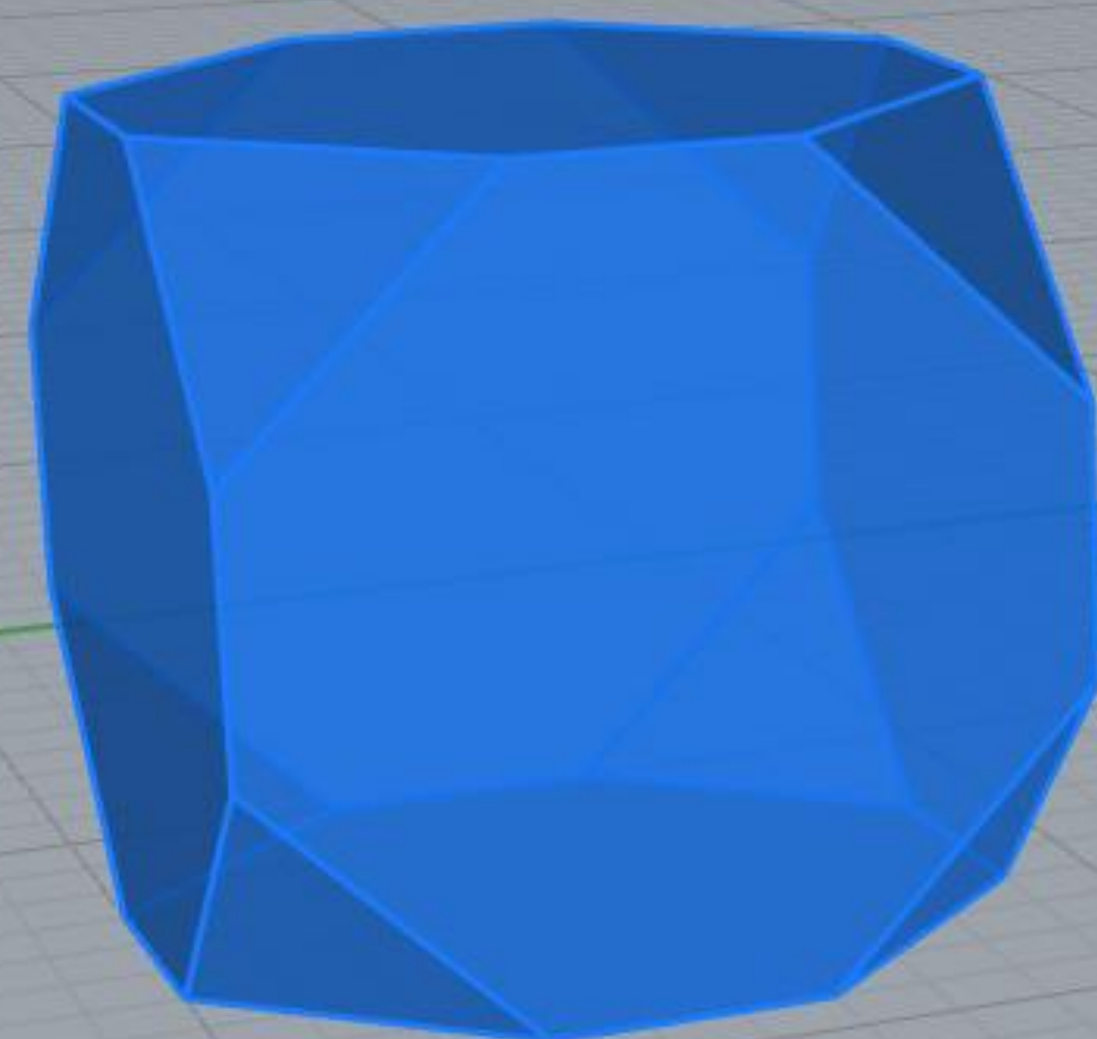
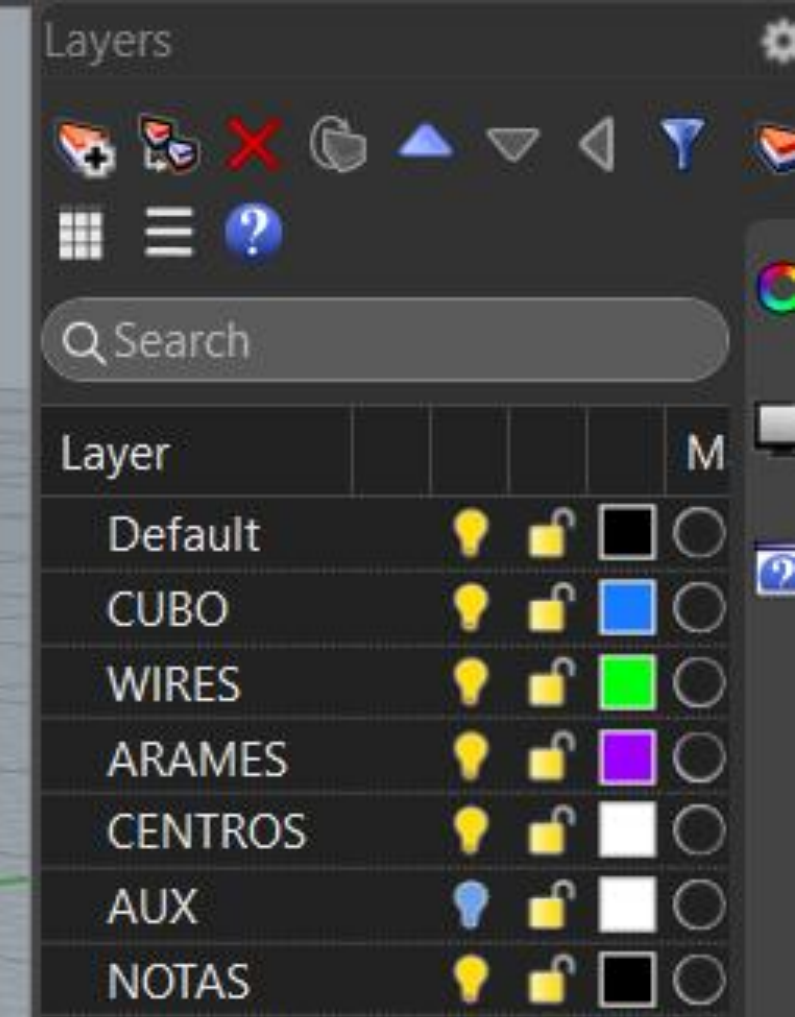


VÉRTICES – ARRAYPOLAR

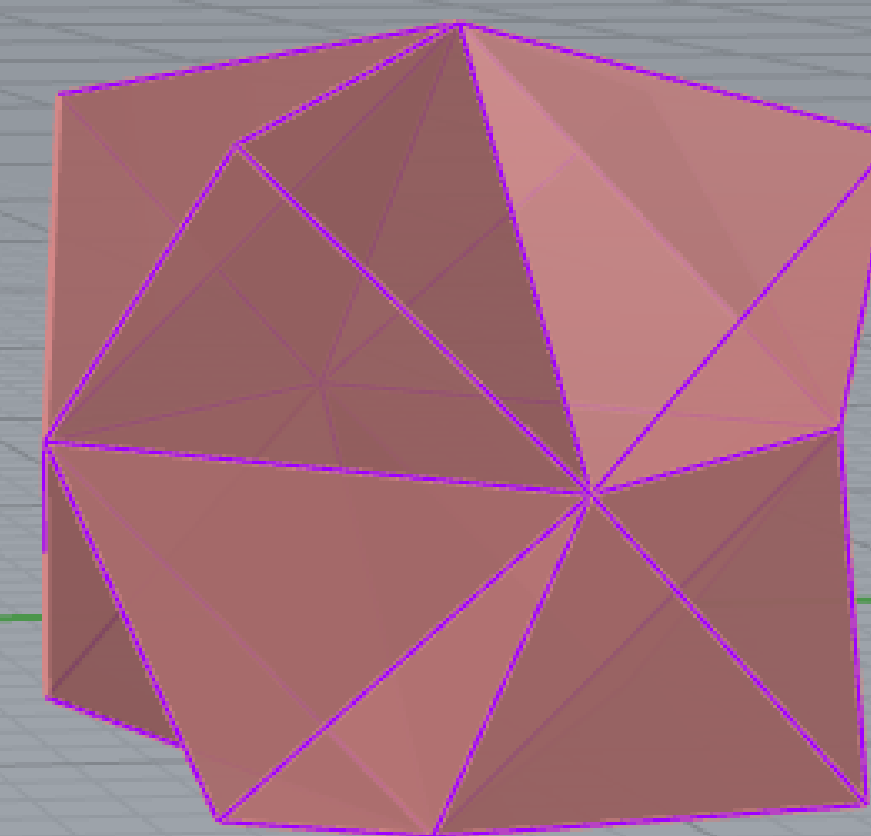


WIRECUT

EXERCÍCIO. 1- CUBO TRUNCADO

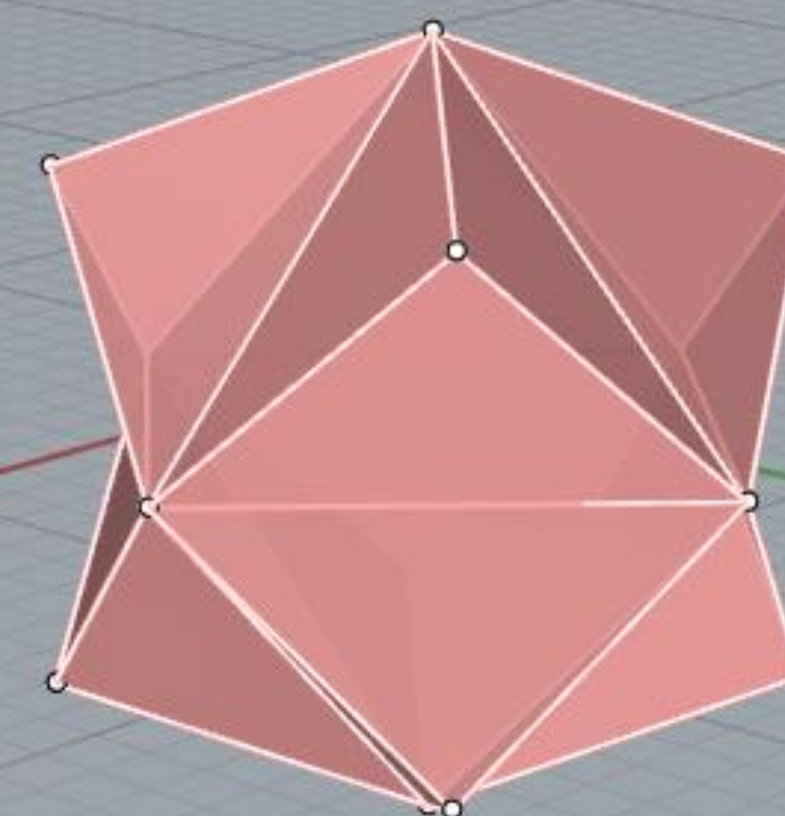
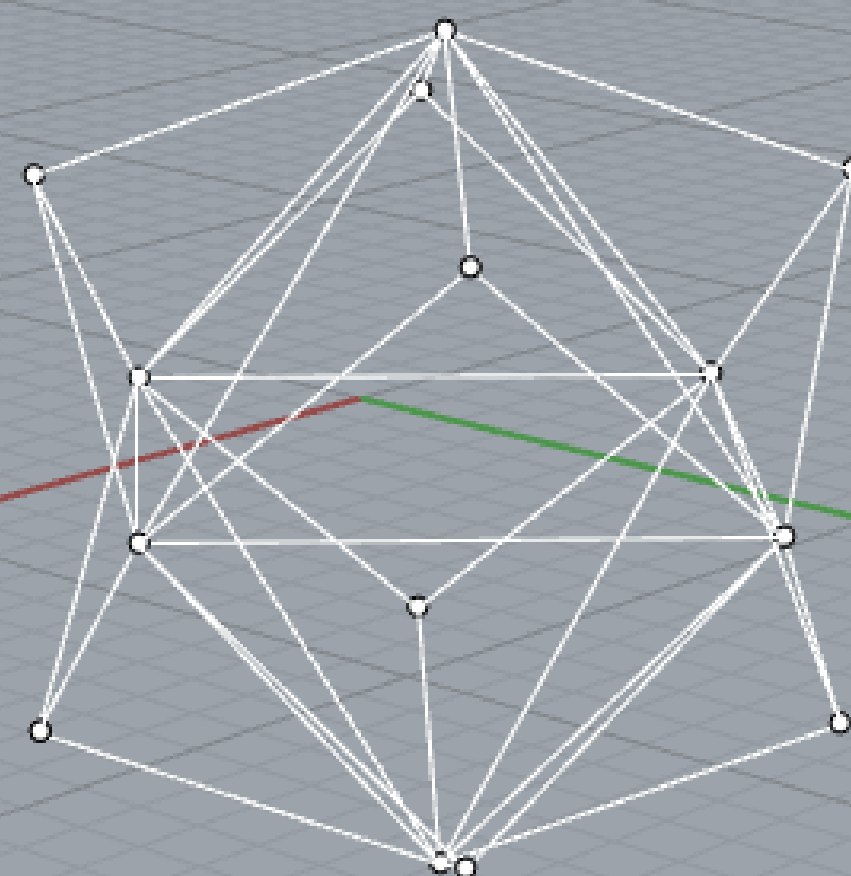
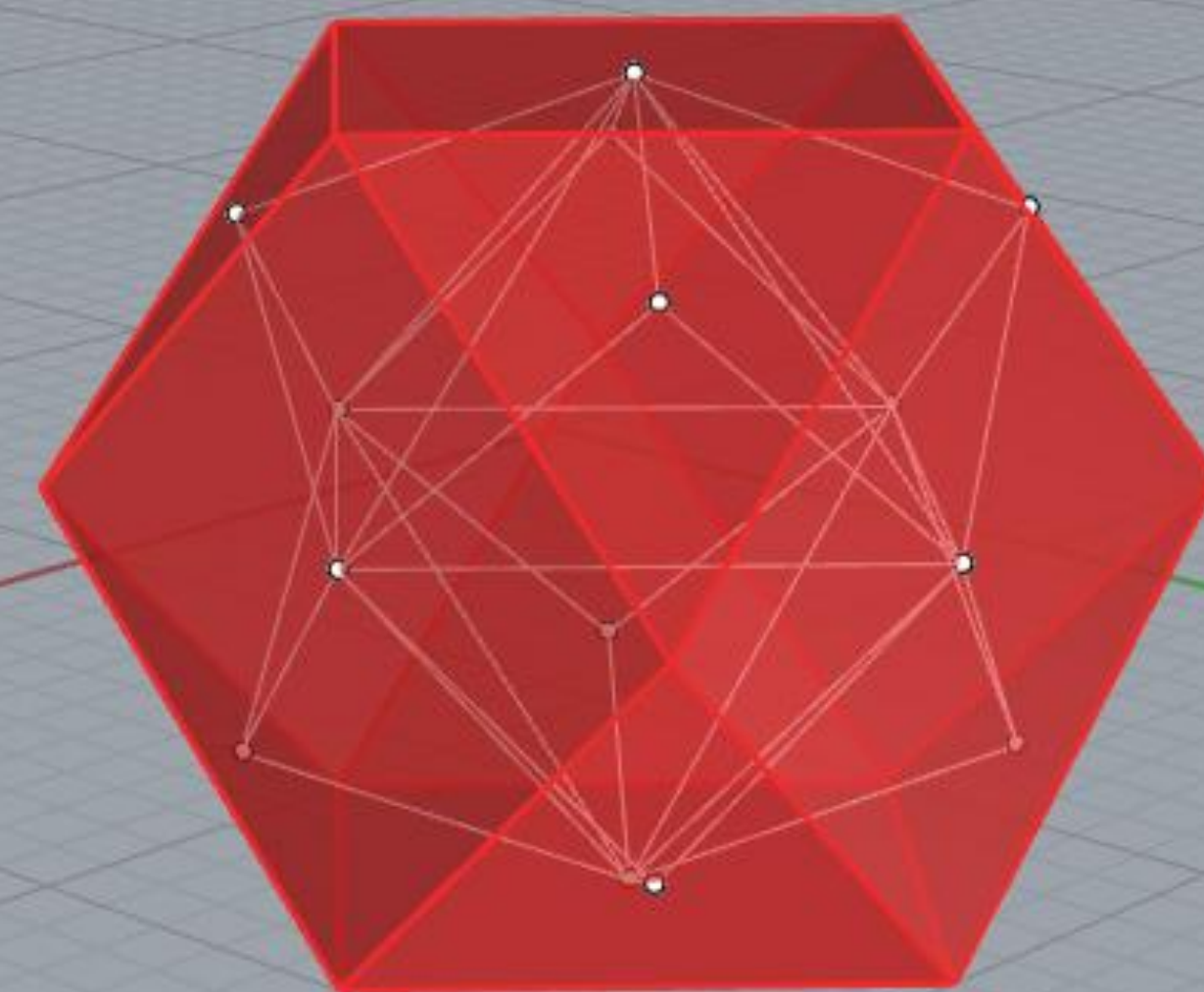
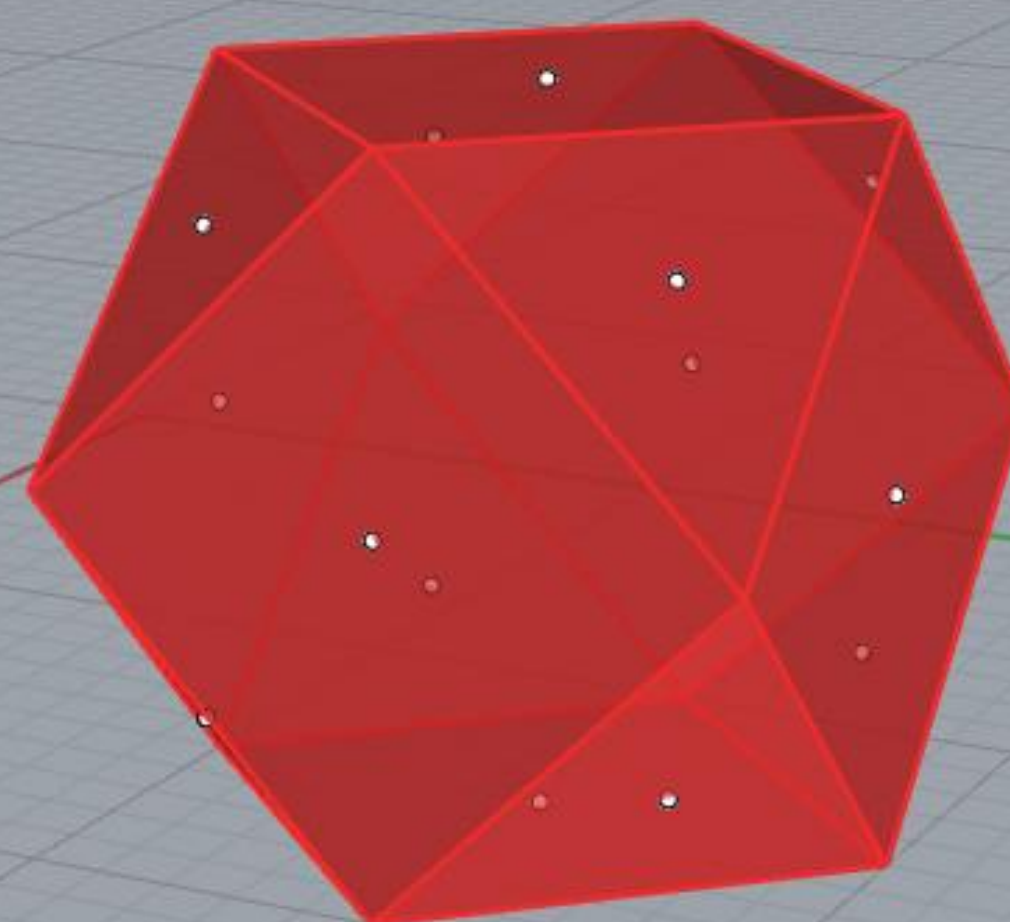
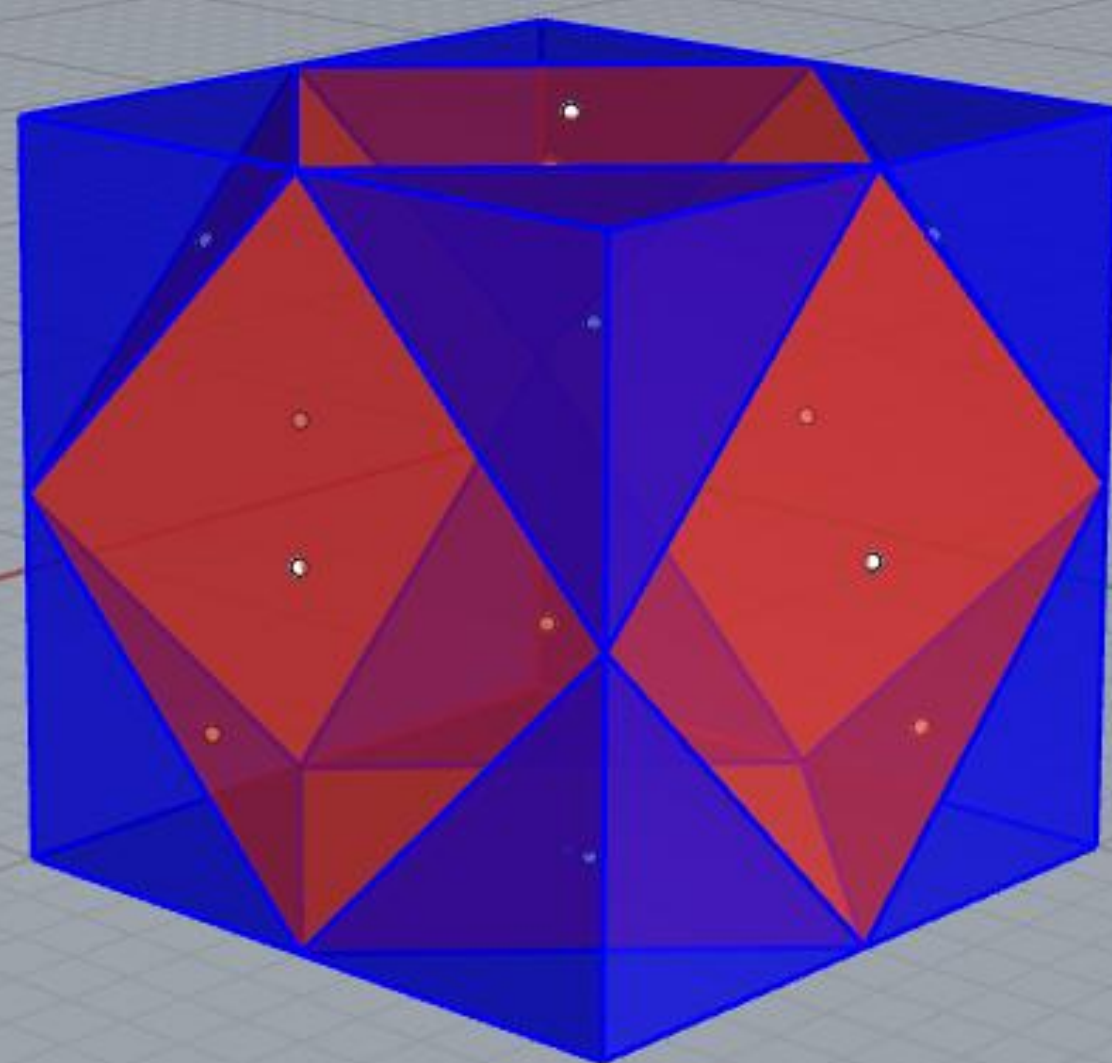


CUBO TRUNCADO A 1/3 DA ARESTA



DUAL DO CUBO TRUNCADO

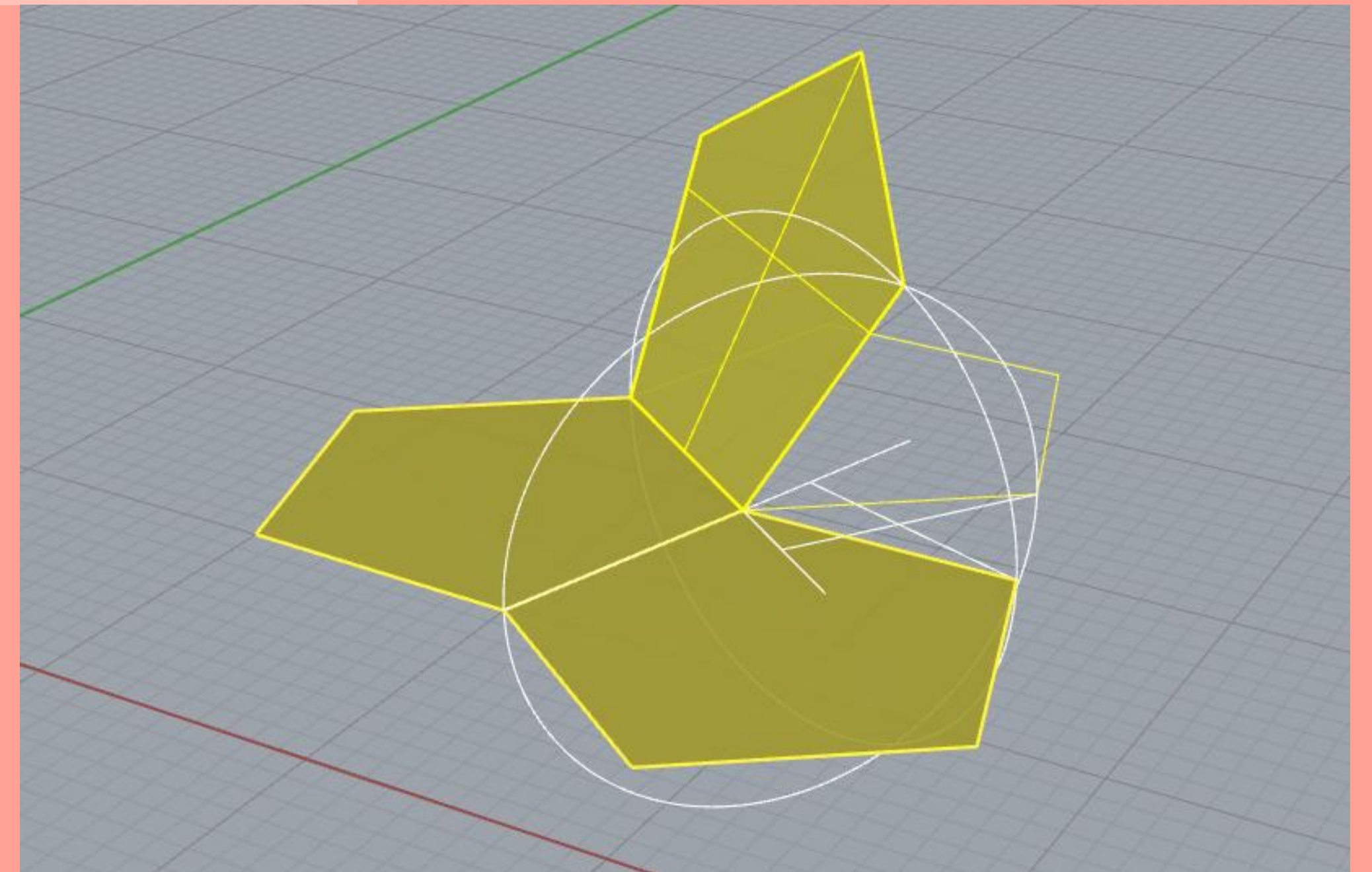
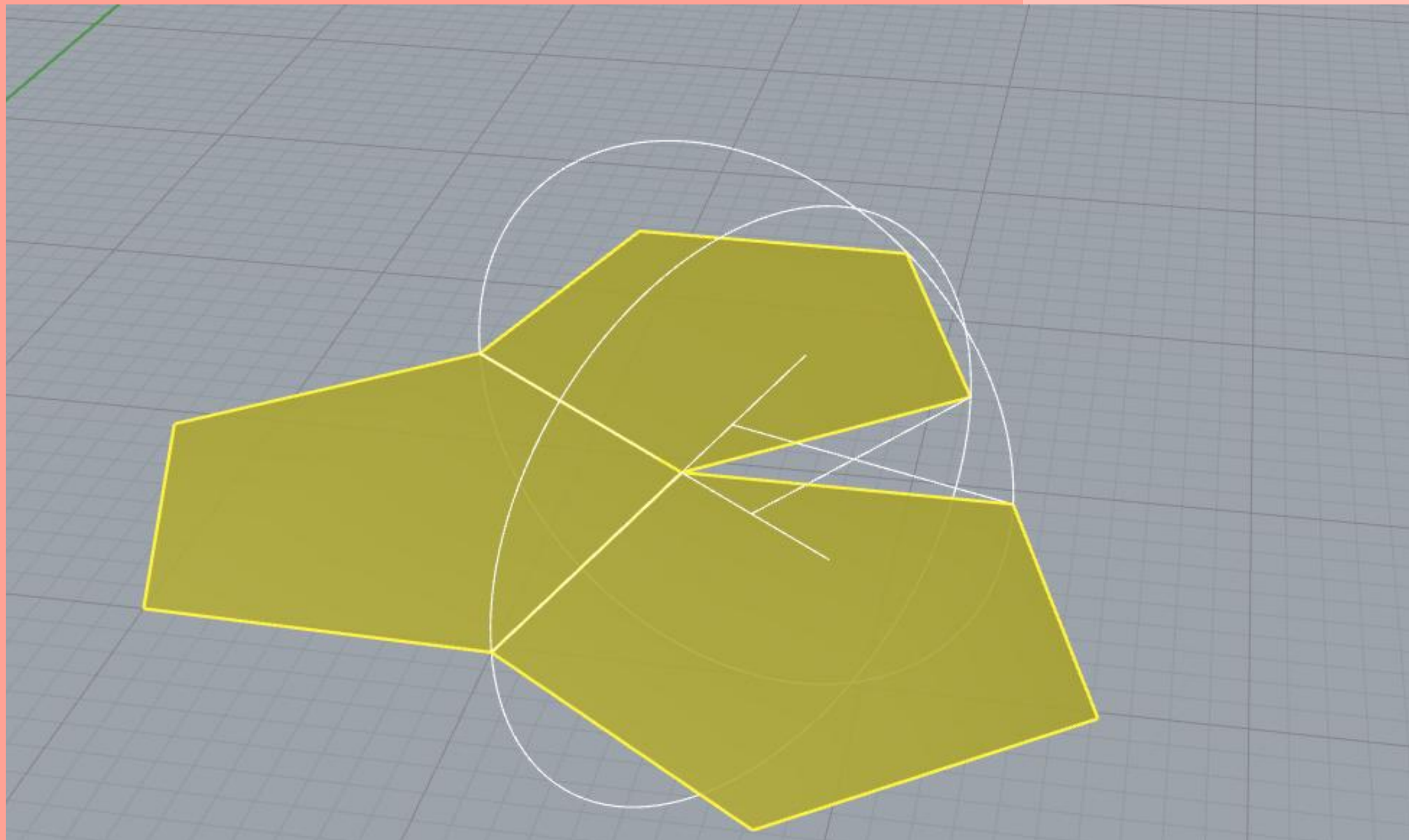
EXERCÍCIO. 1- CUBO TRUNCADO



DUAL DE CUBO TRUNCADO

EXERCÍCIO. 2- CUBO OCTAEDRO

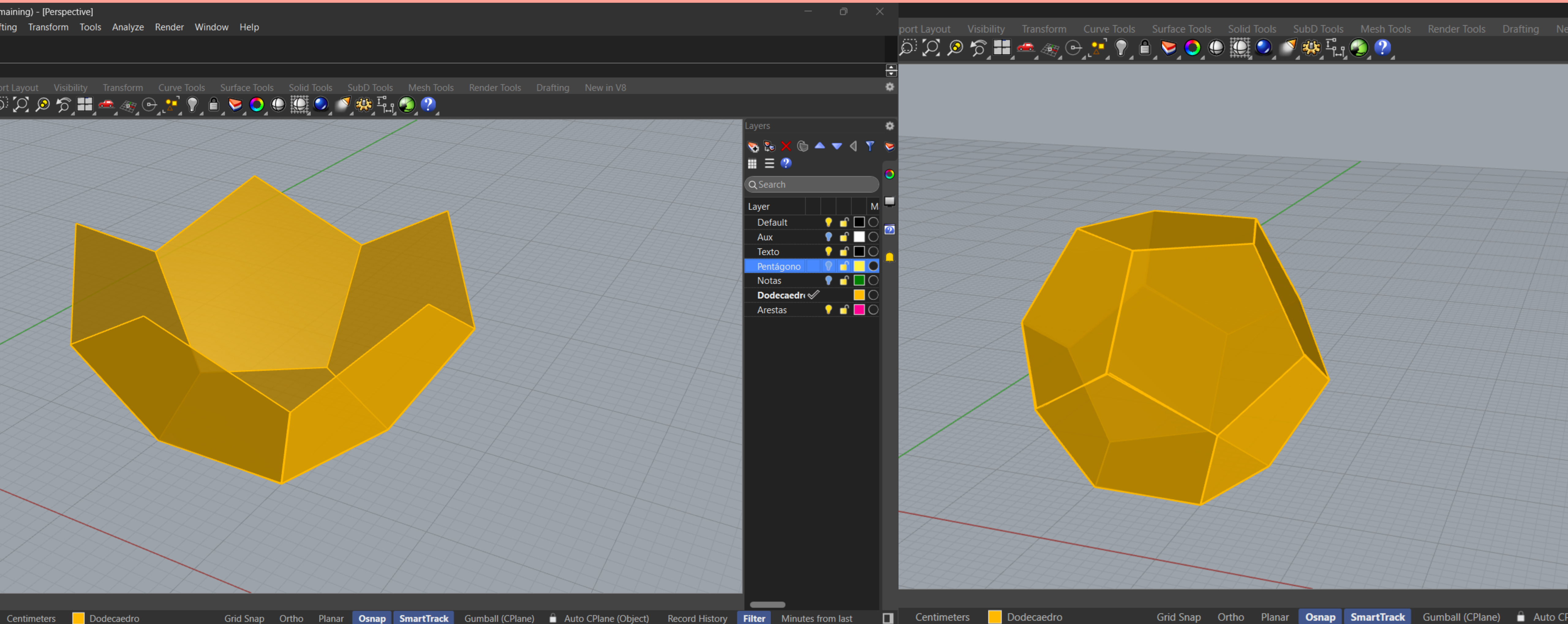
PENTÁGONO E ROTAÇÃO DO MESMO



DUAL DE CUBO TRUNCADO

EXERCÍCIO. 3- DODECAEDRO TRUNCADO

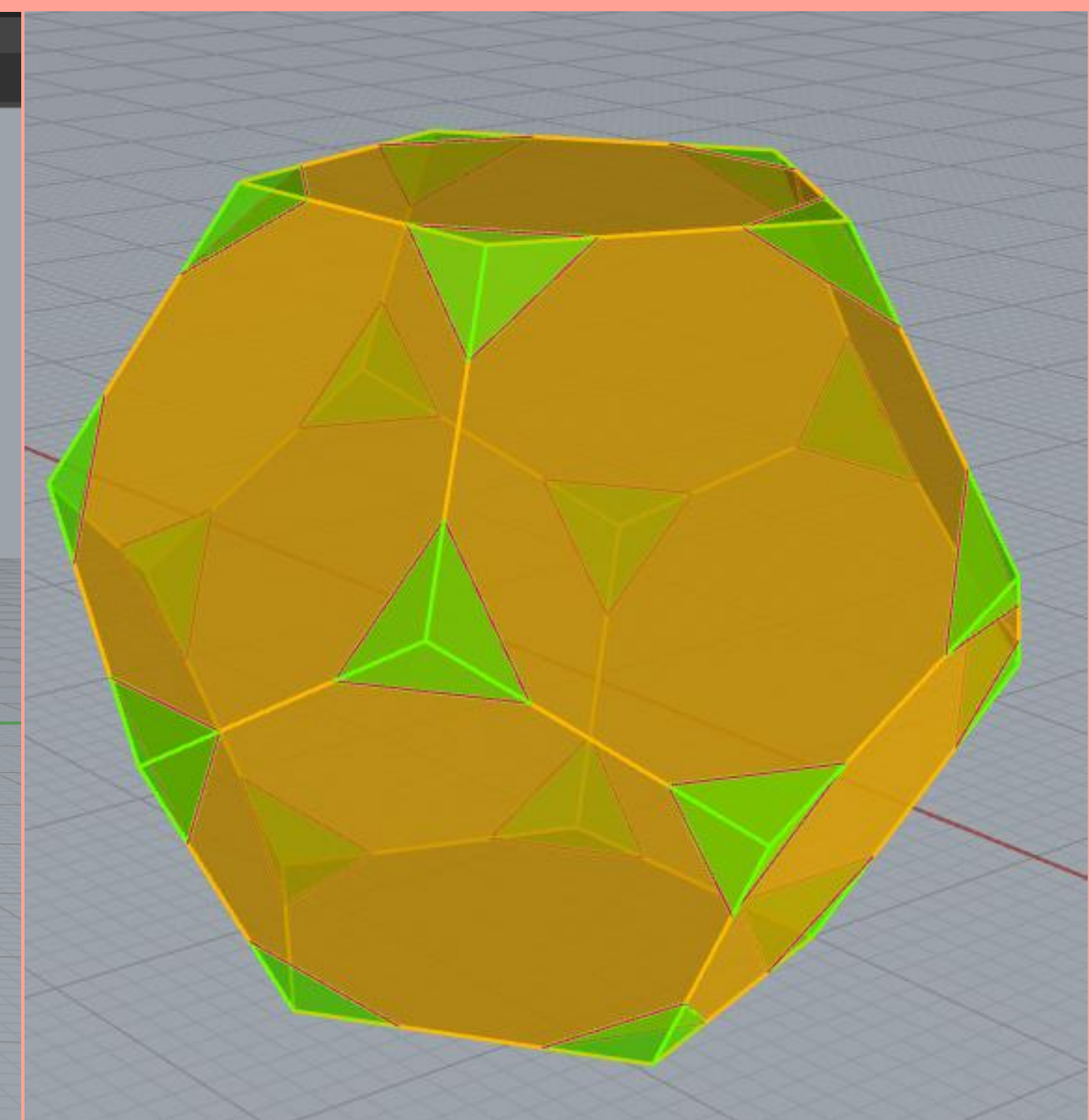
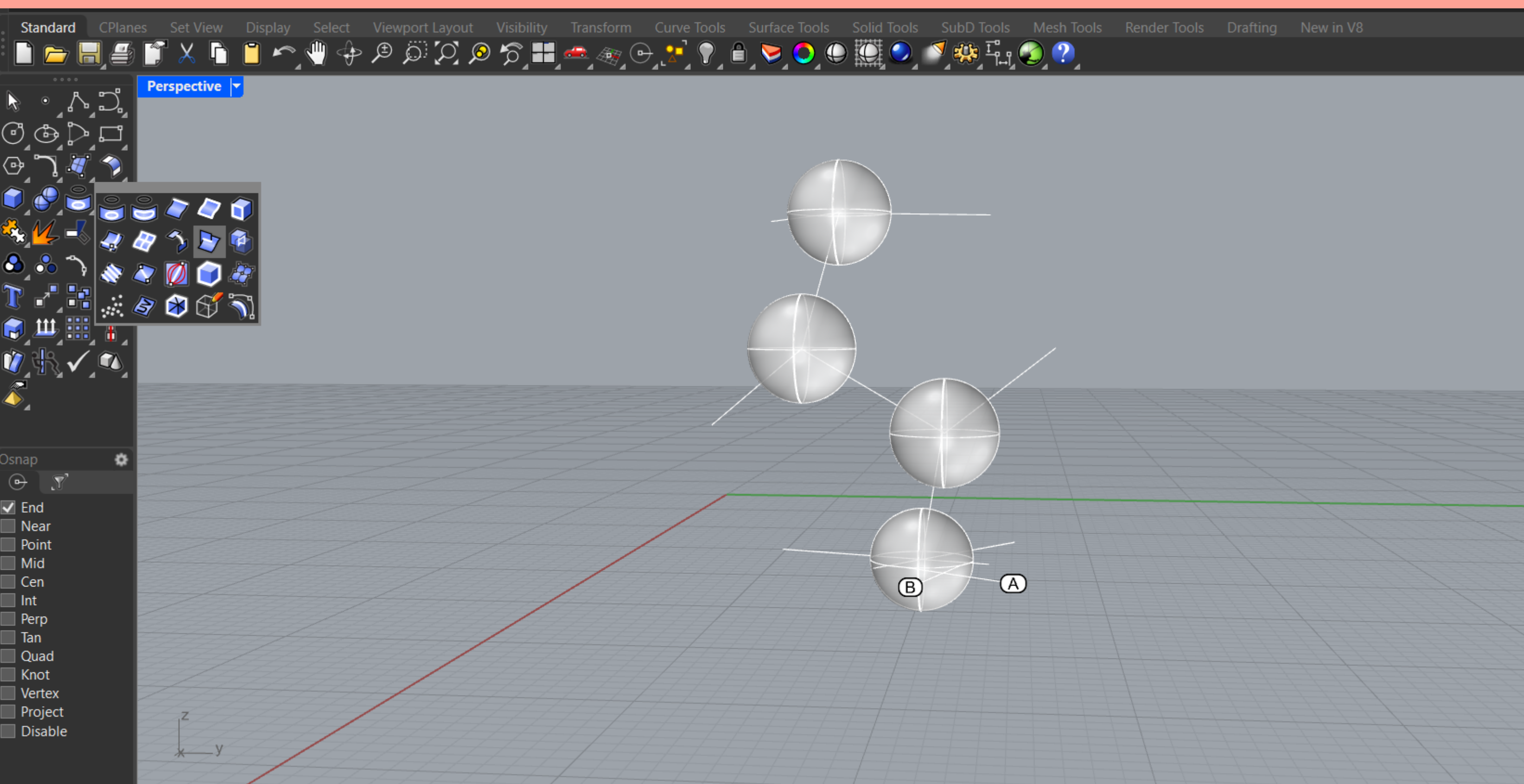
MIRROR + ROTATE3D



DUAL DE CUBO TRUNCADO

EXERCÍCIO. 3- DODECAEDRO TRUNCADO

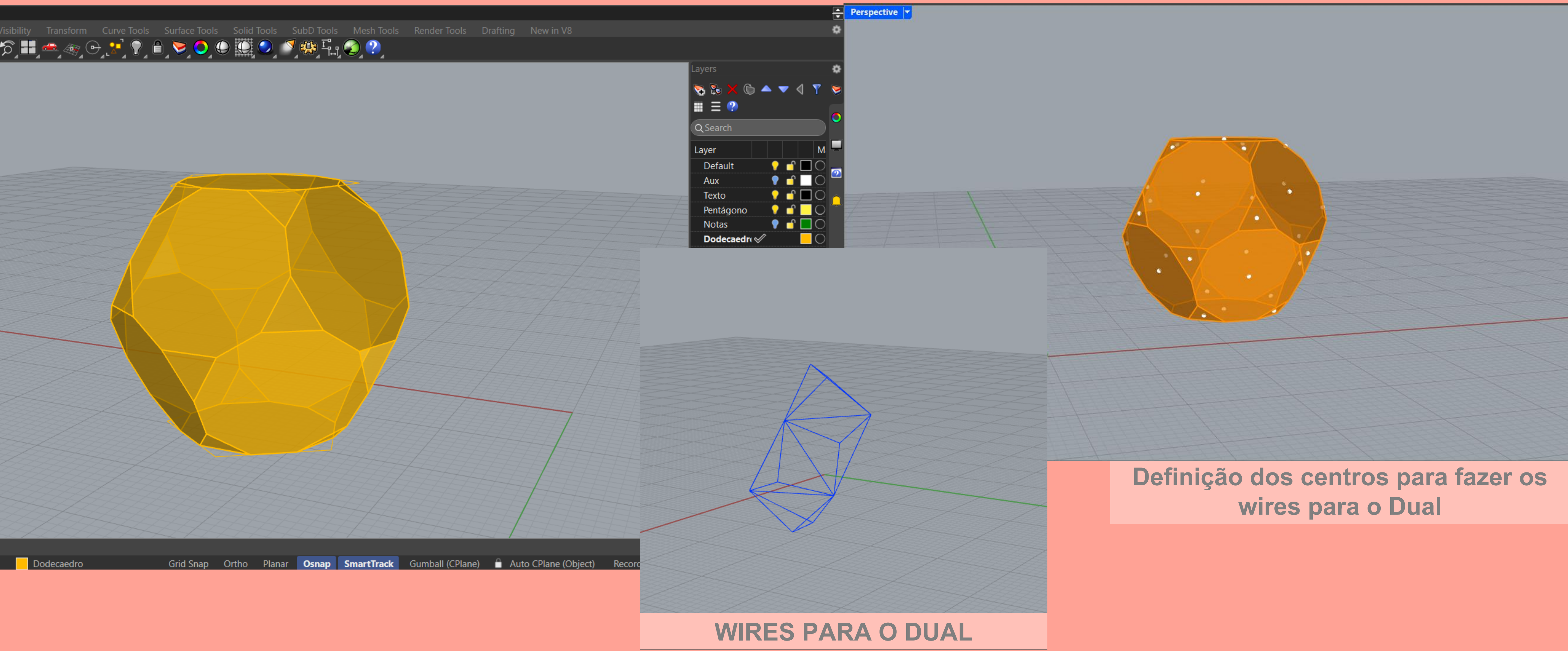
Determinação dos vértices pela
intersecção das esferas e arestas



WireCut dos vértices para determinar
o dodecaedro truncado

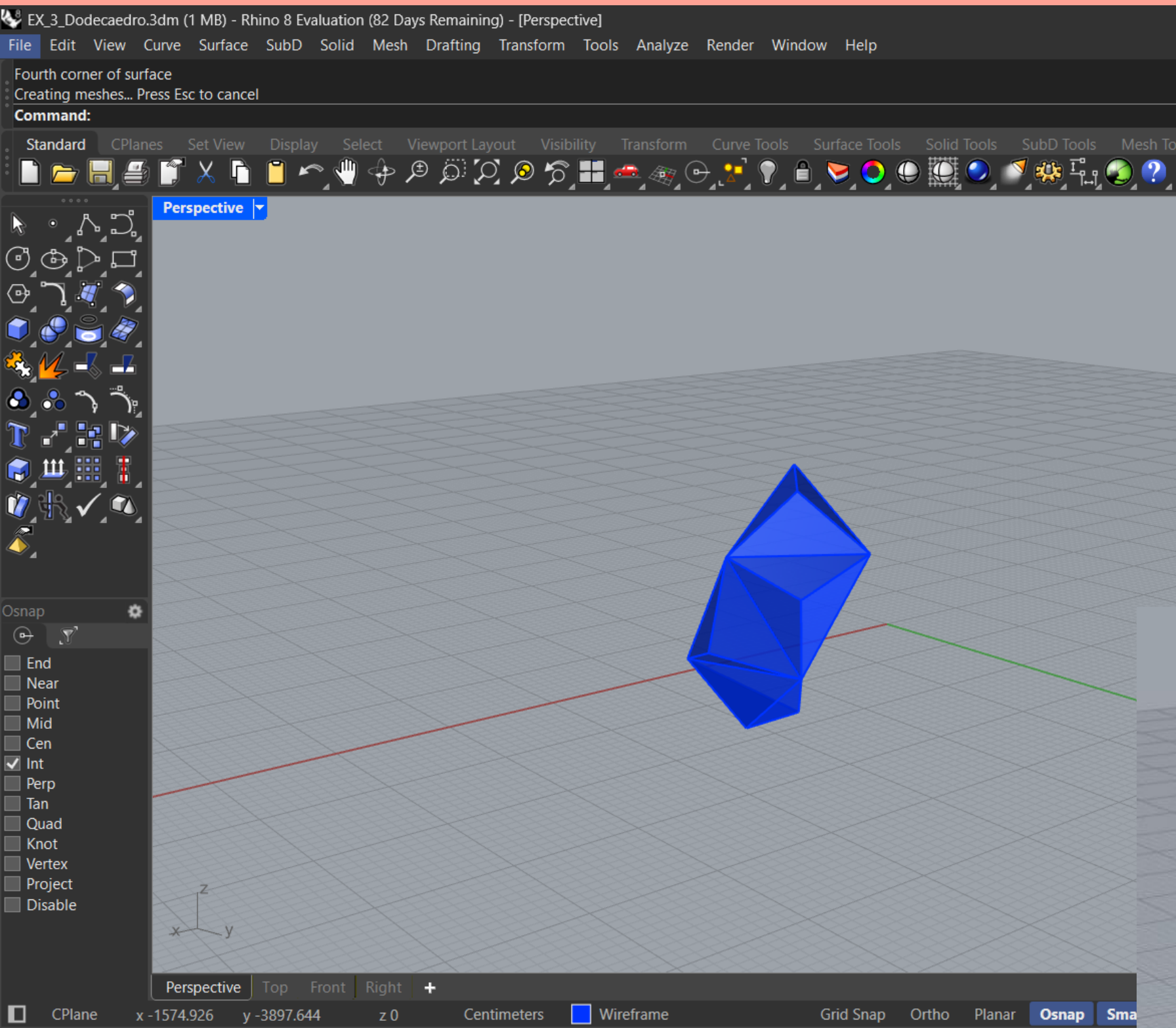
EXERCÍCIO. 3- DODECAEDRO TRUNCADO

DODECAEDRO TRUNCADO

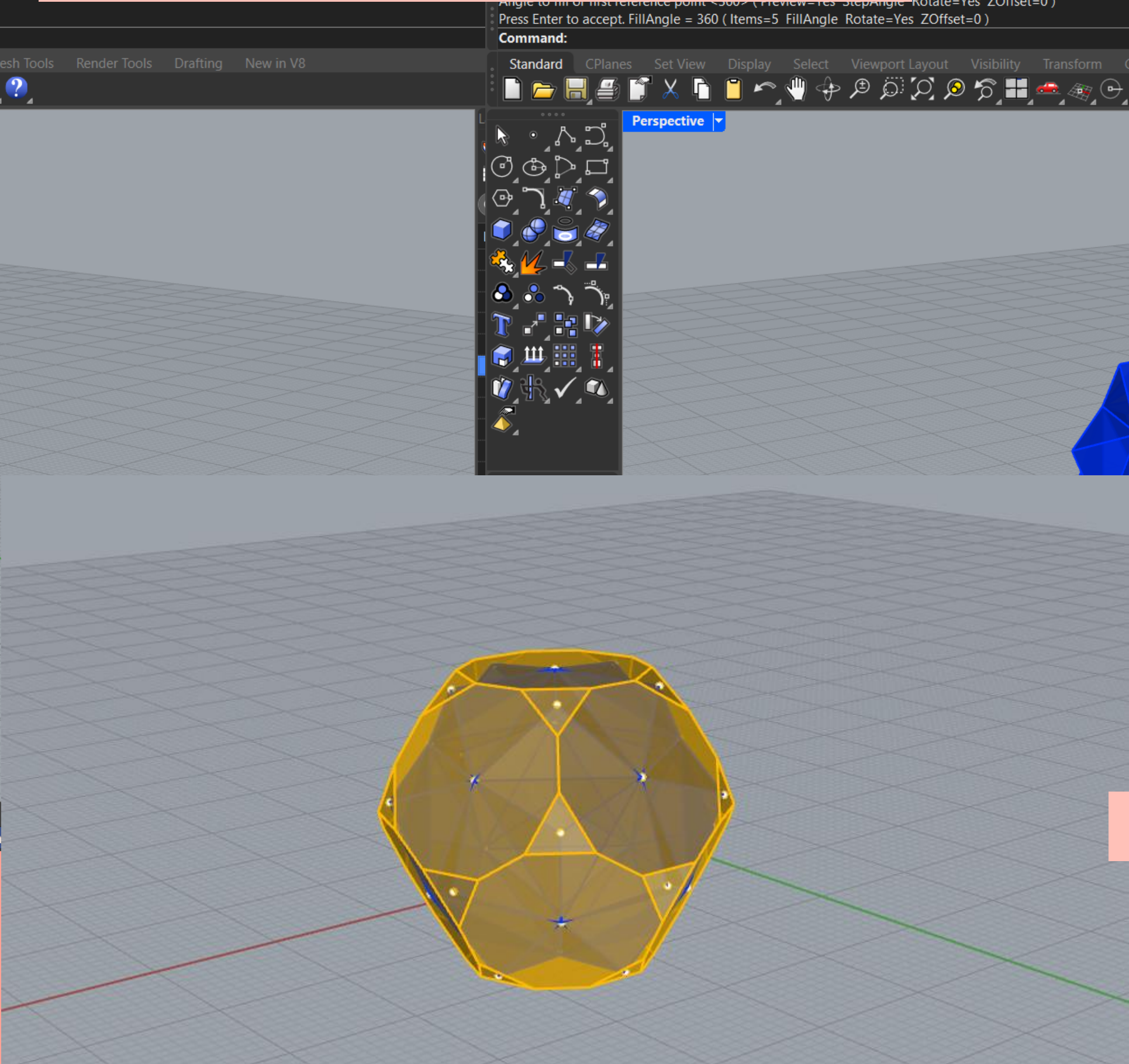


EXERCÍCIO. 3- DODECAEDRO TRUNCADO

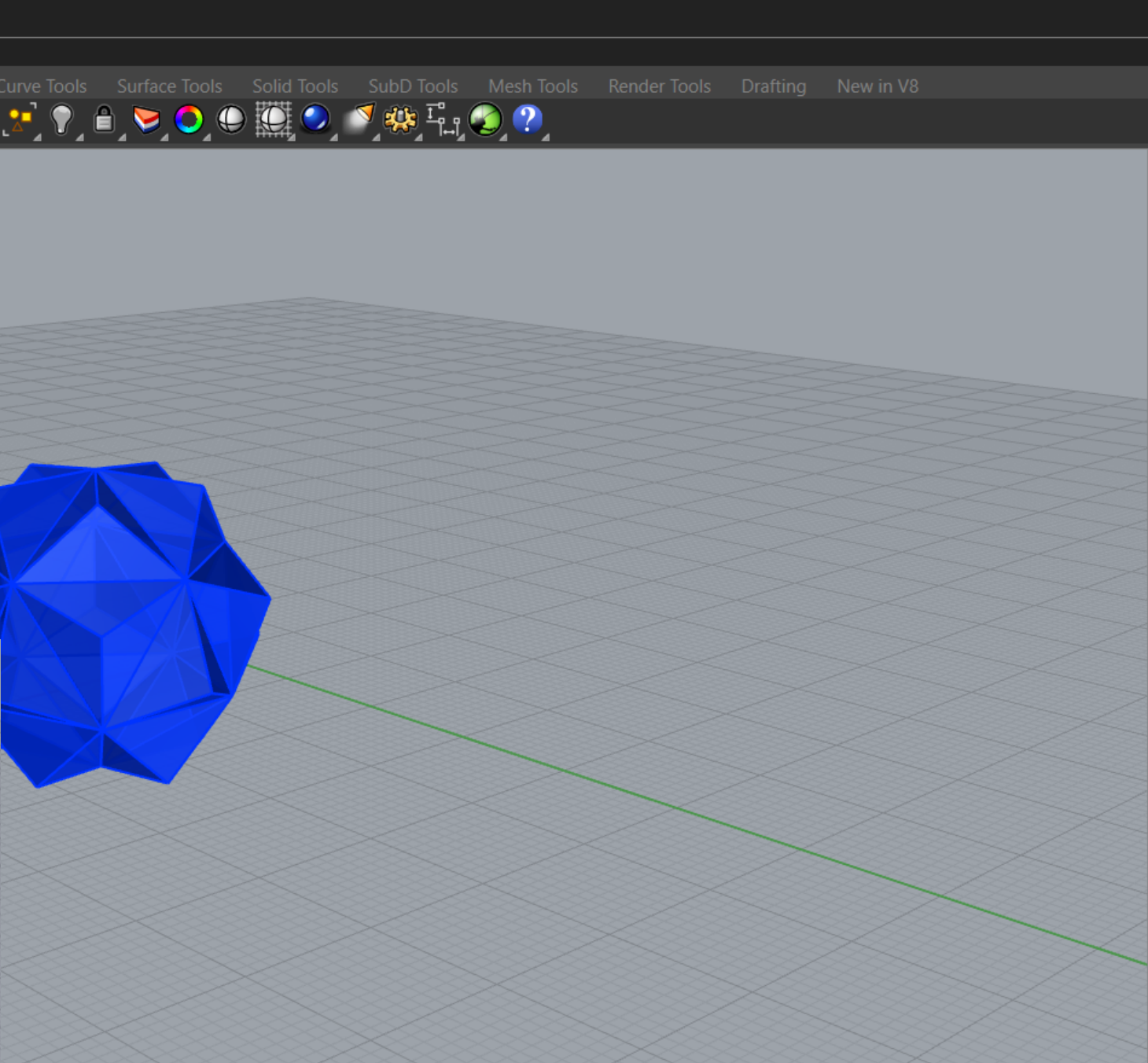
SUBSURFACE



ARRAYPOLAR



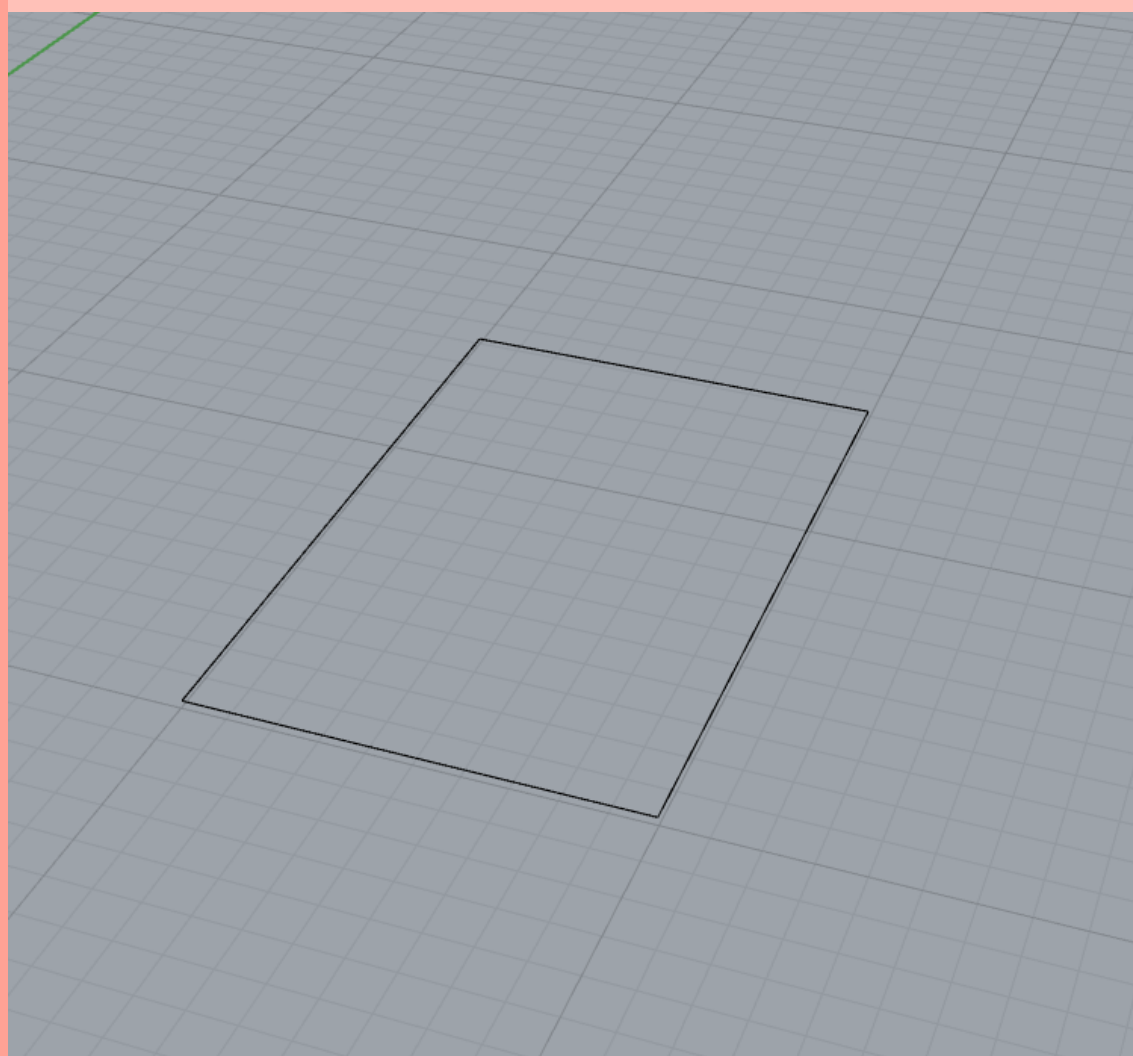
DUAL DODECAEDRO



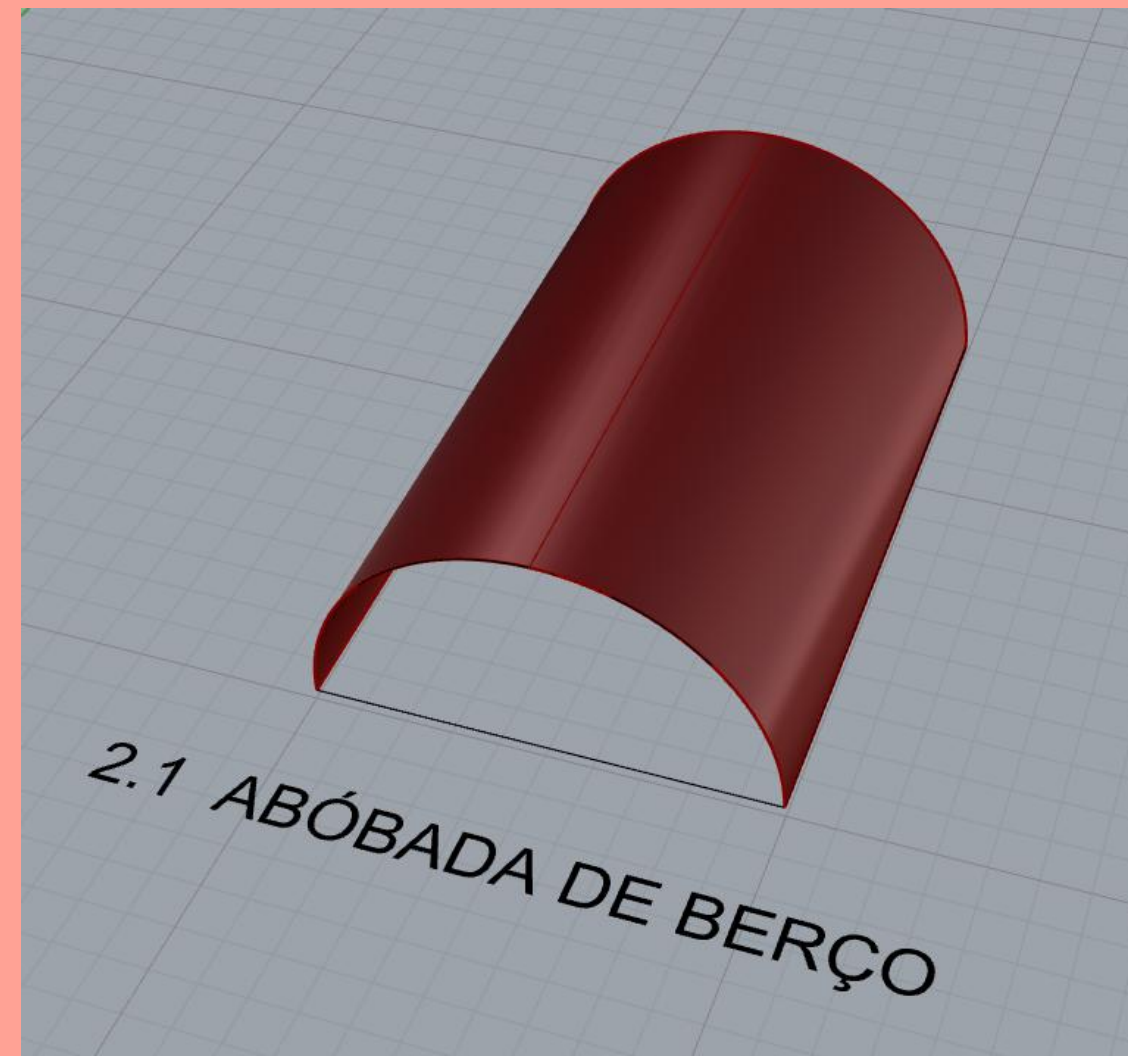
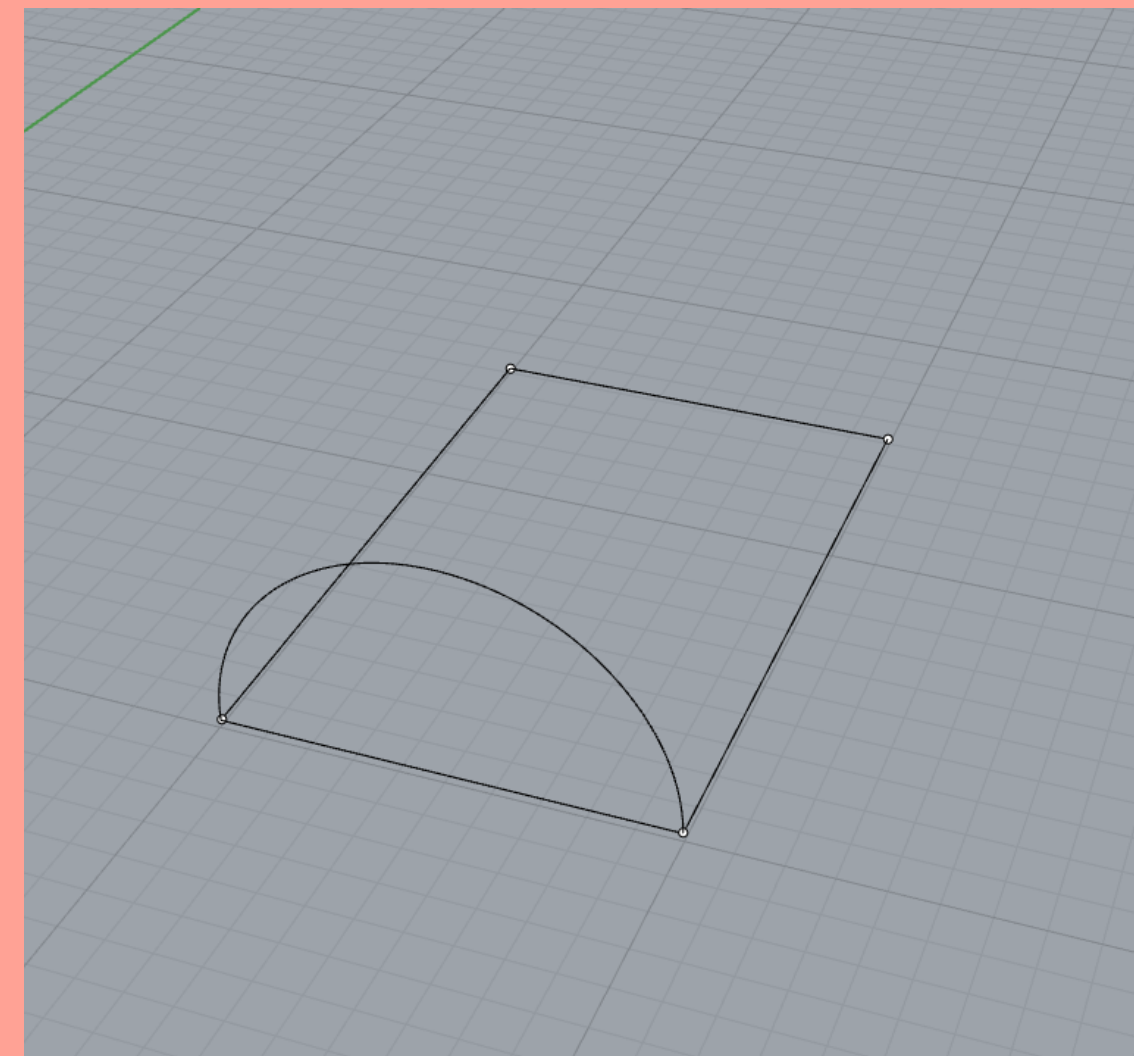
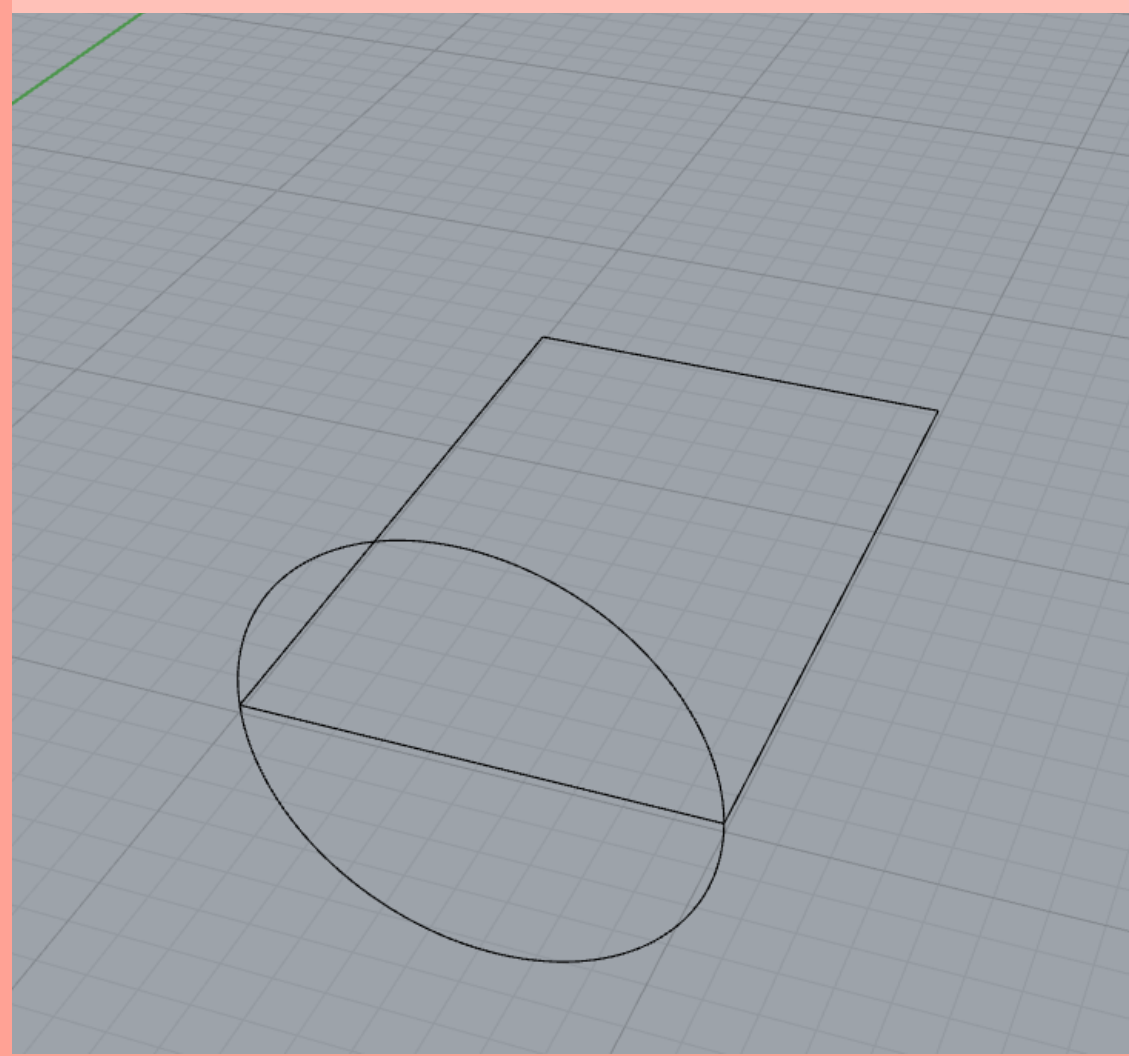
DODECAEDRO TRUCADO + DUAL DODECAEDRO

EXERCÍCIO. 3- DODECAEDRO TRUNCADO

RETÂNGULO 10X15



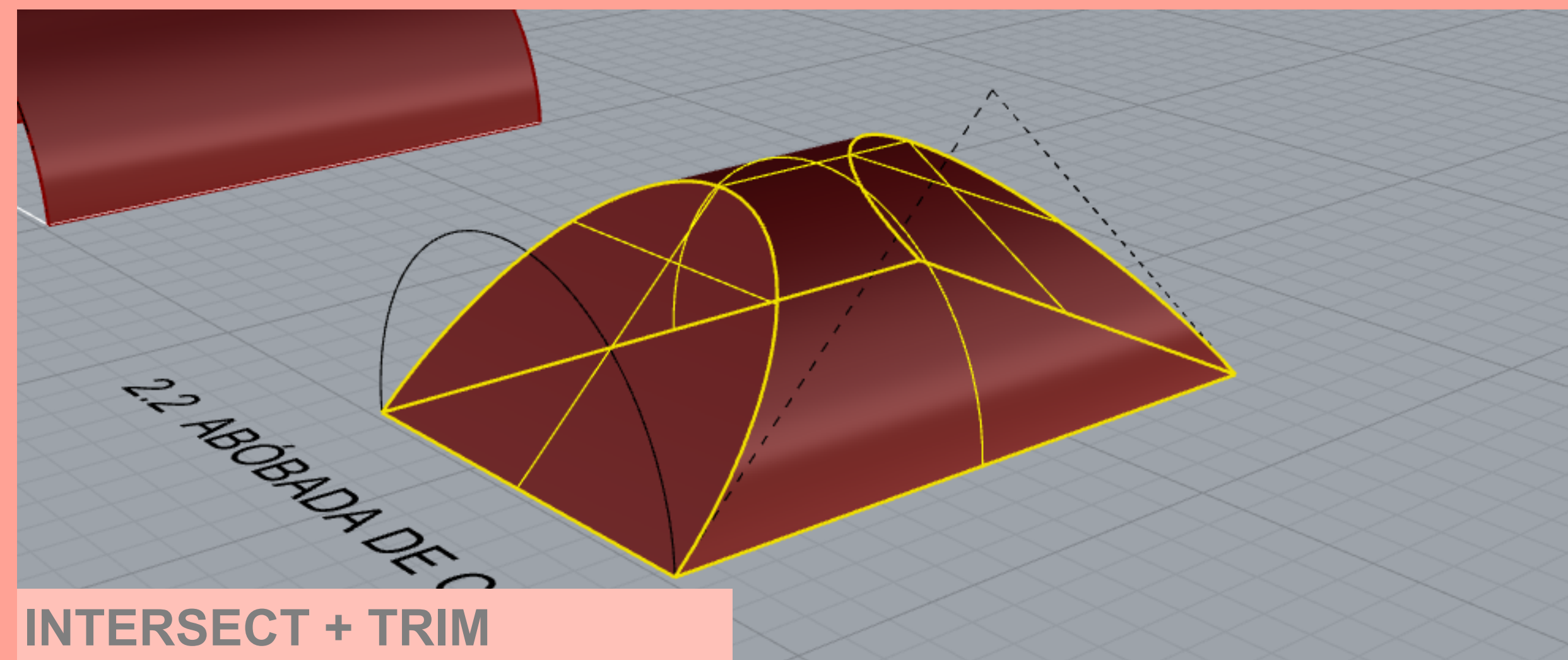
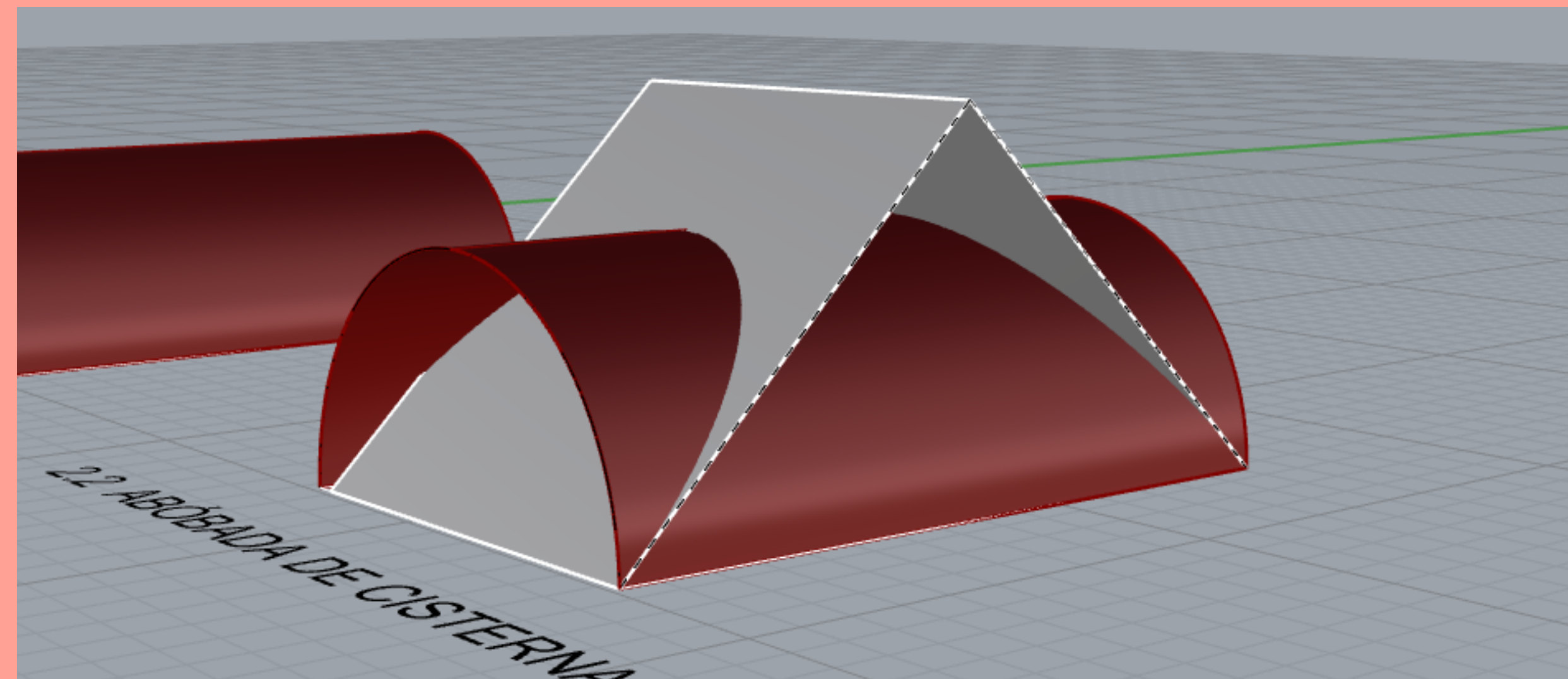
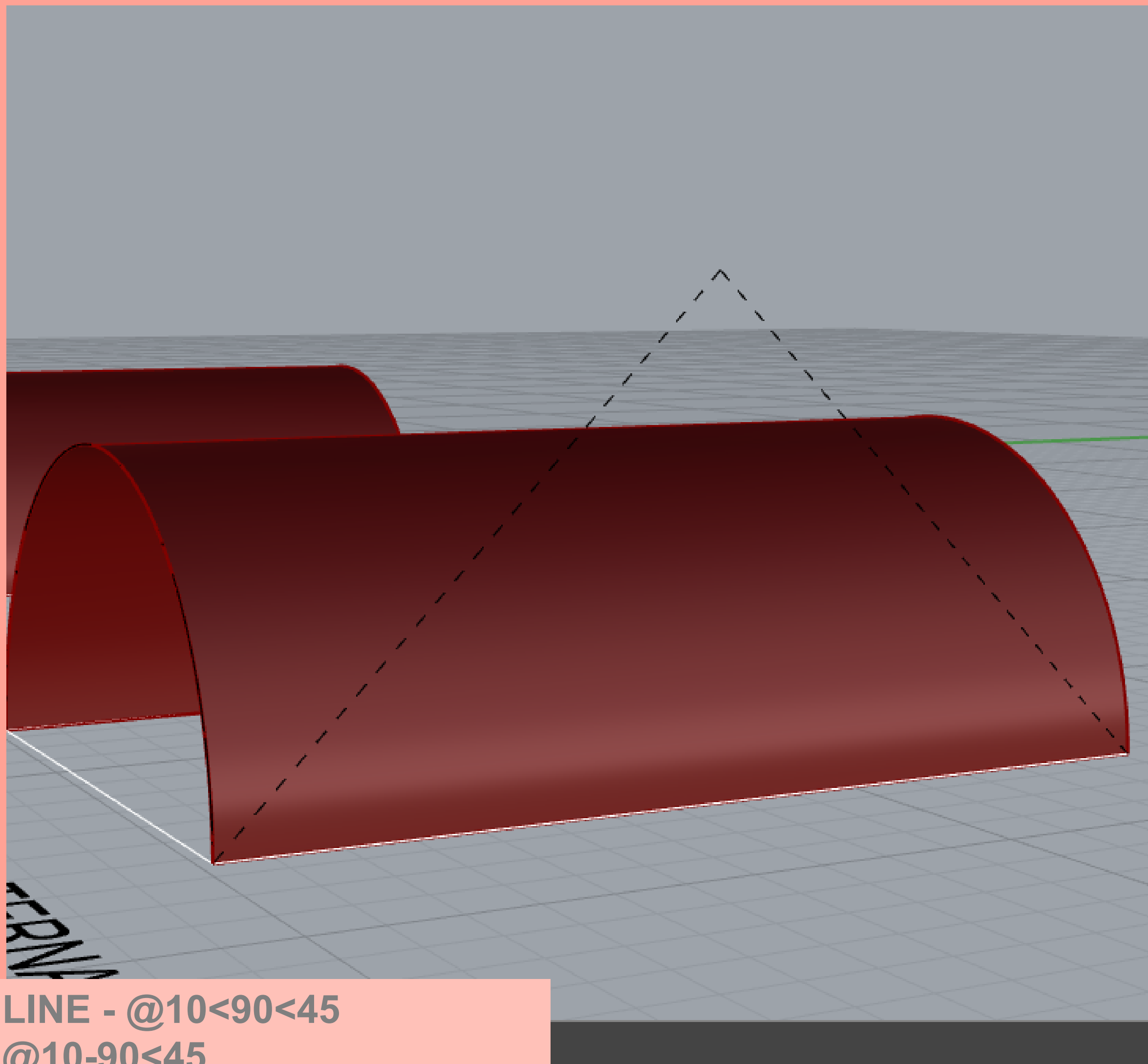
RETÂNGULO 10X15



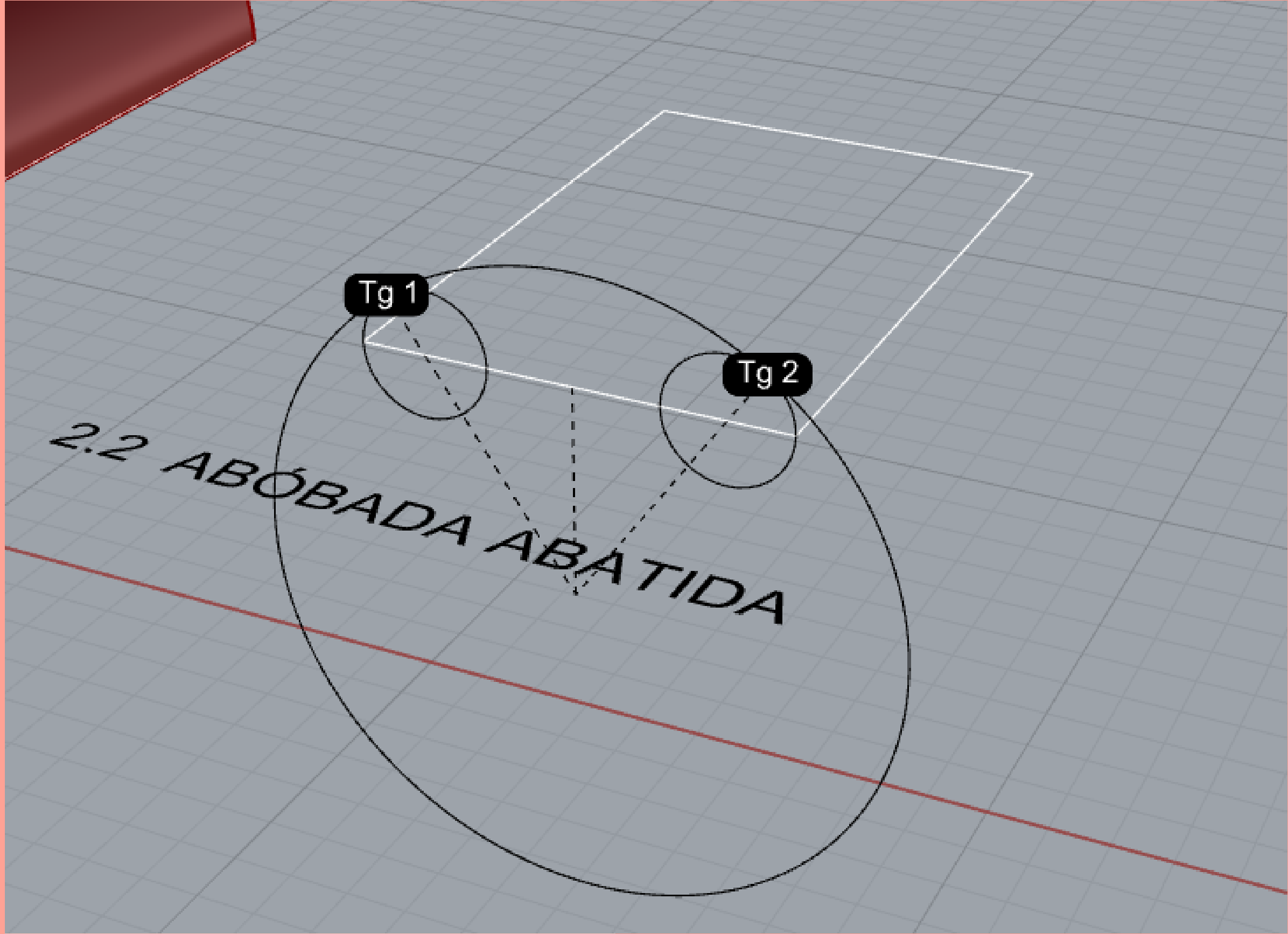
2.1 ABÓBADA DE BERÇO

EXTRUDECRV

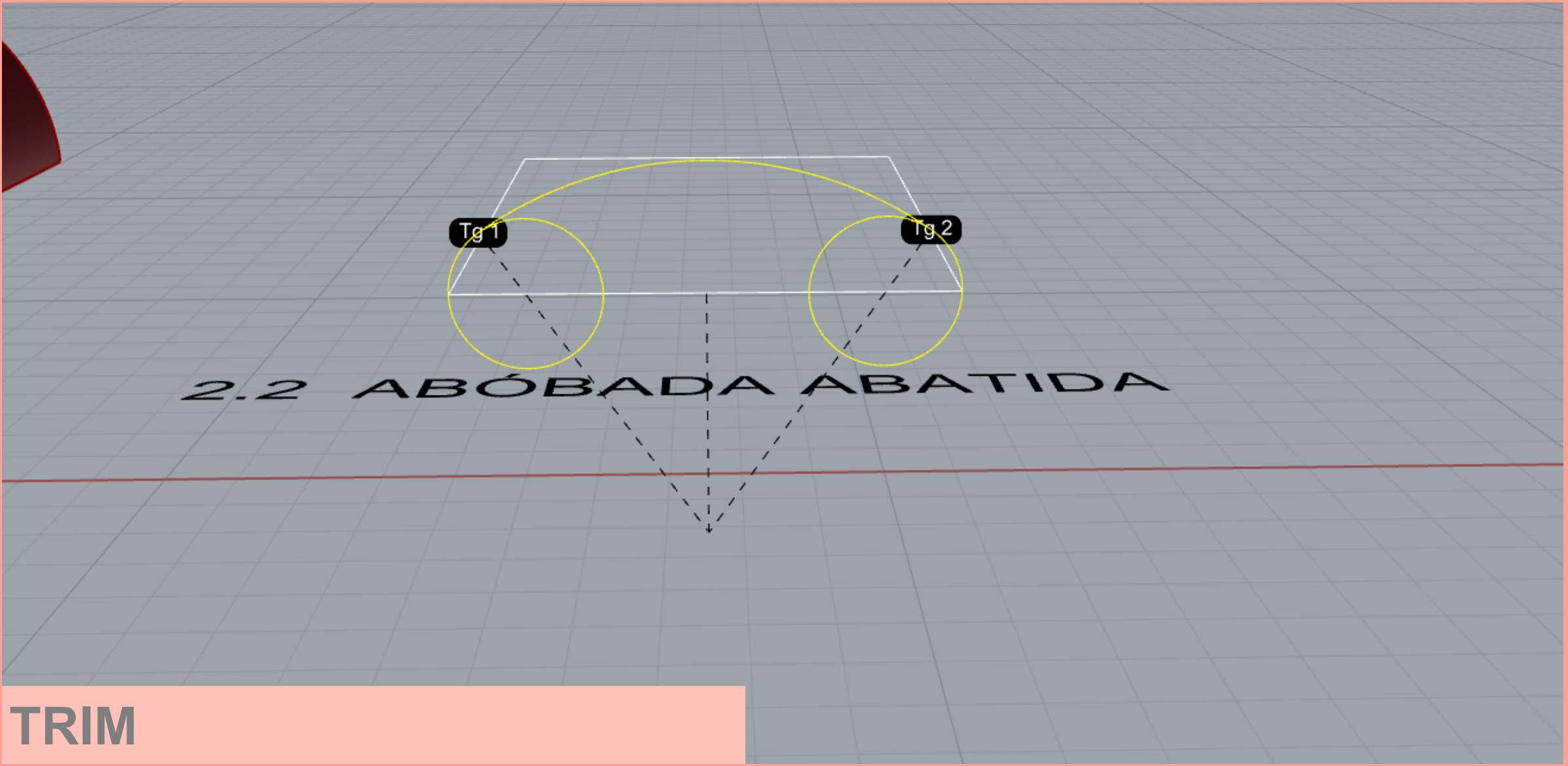
ABÓBADA DE BERÇO



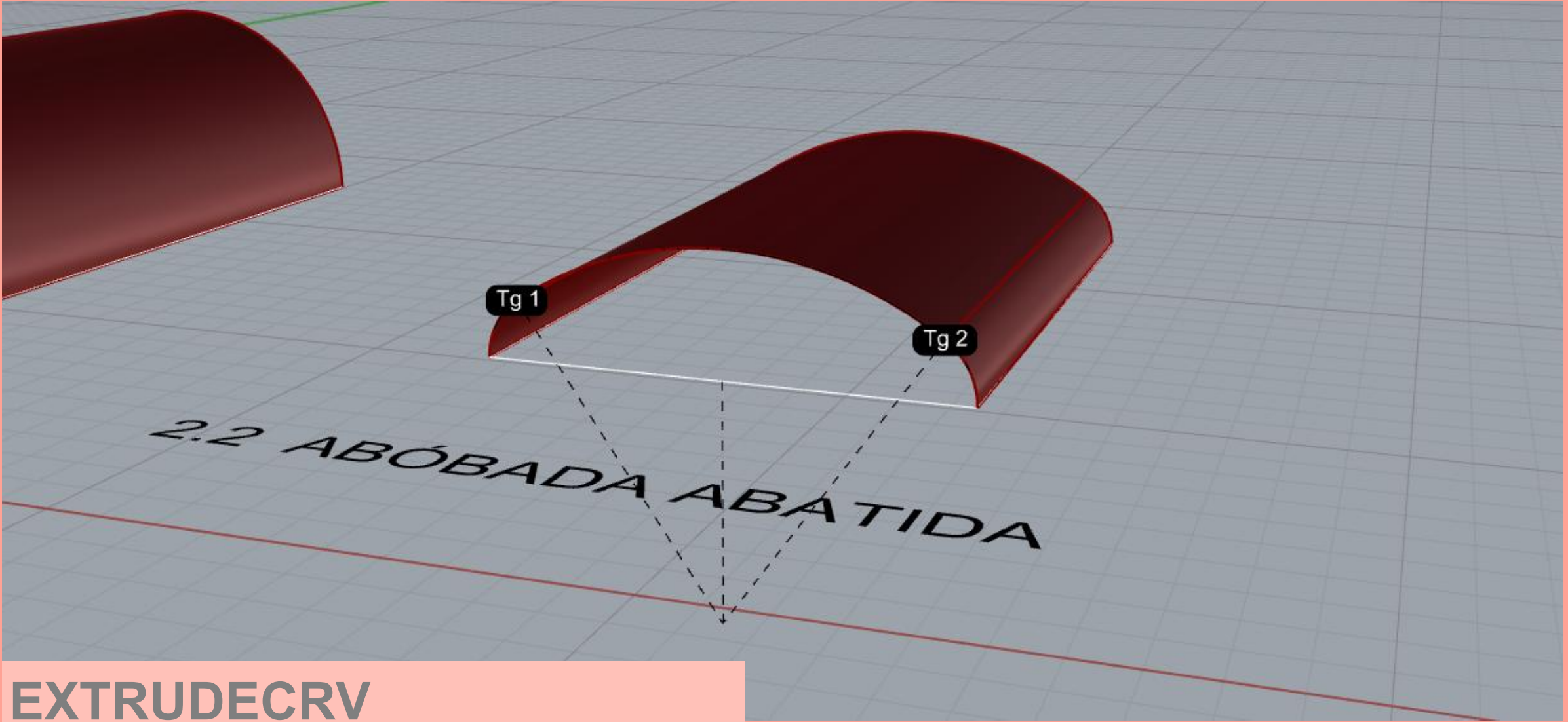
ABÓBADA DE CISTERNA



CIRCLES VERTICAIS

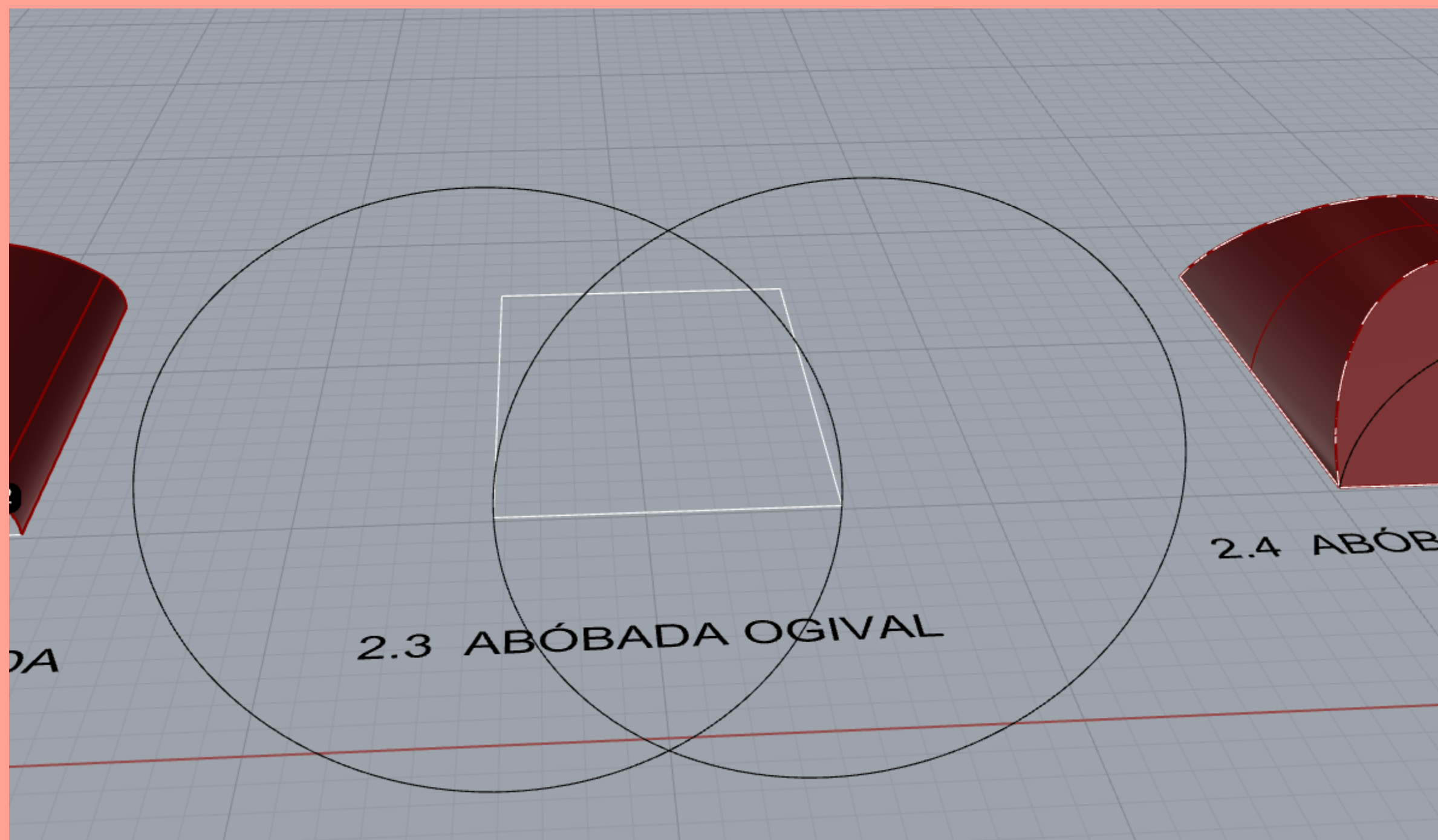


TRIM

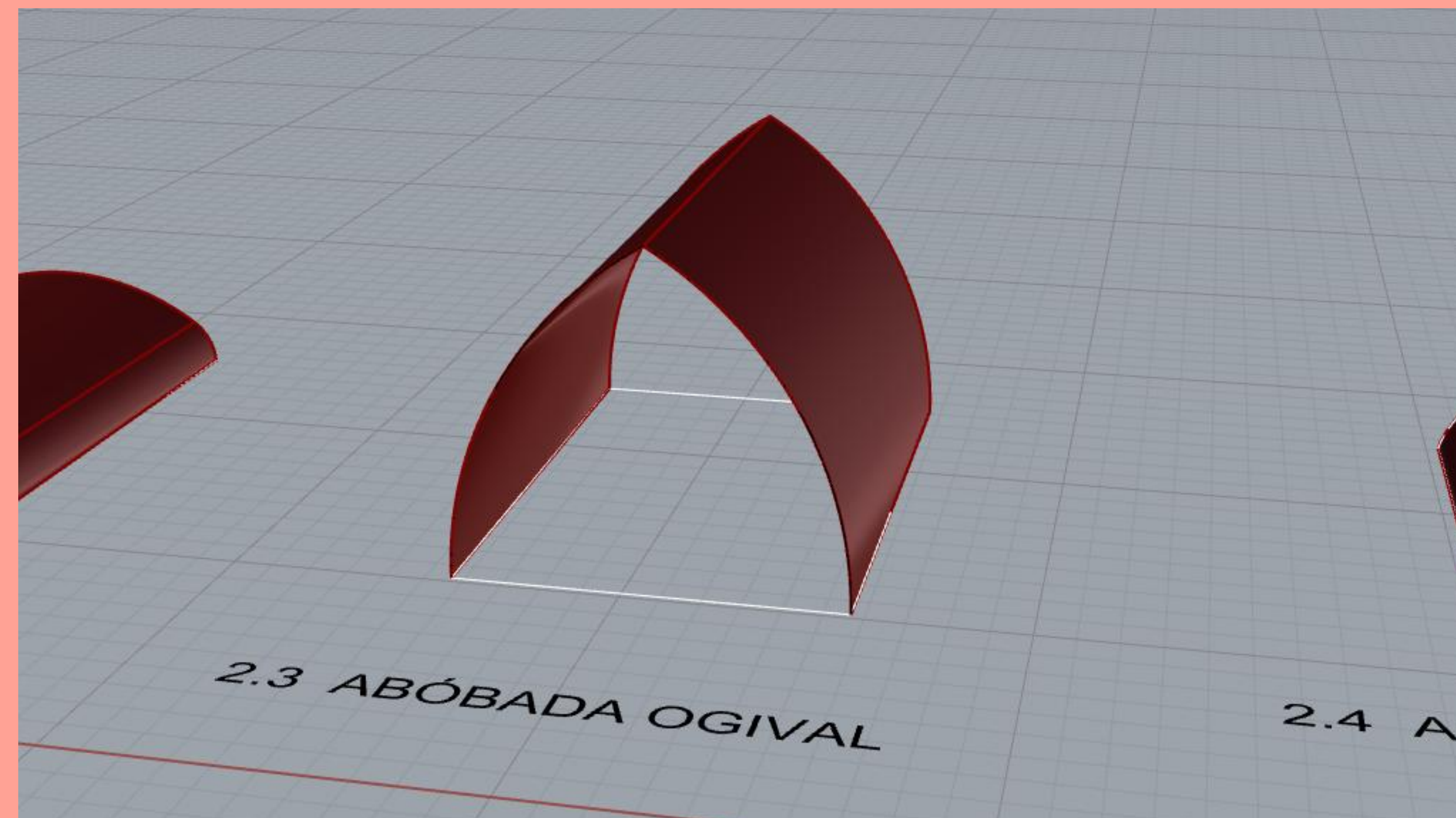


EXTRUDECRV

ABÓBADA ABATIDA

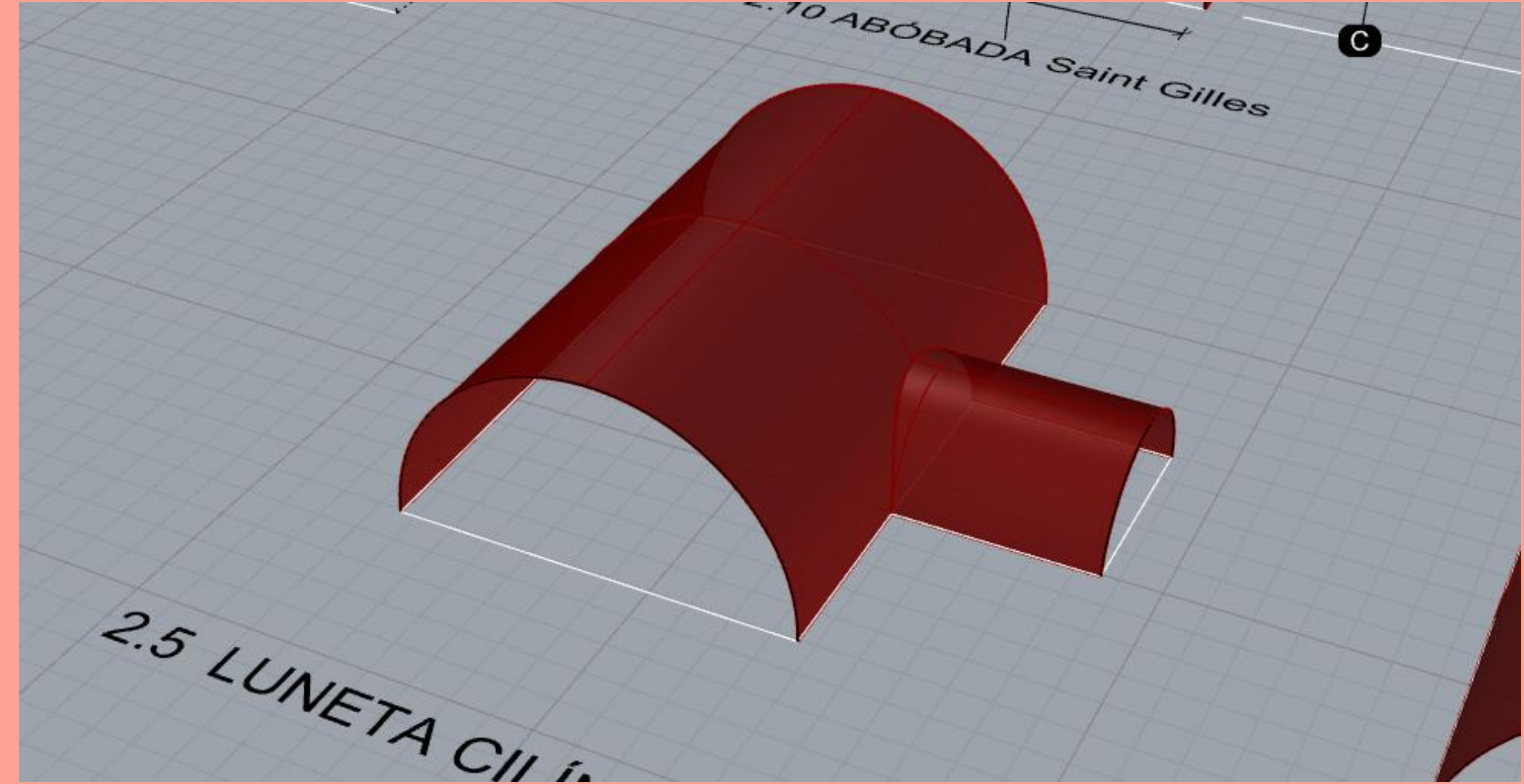
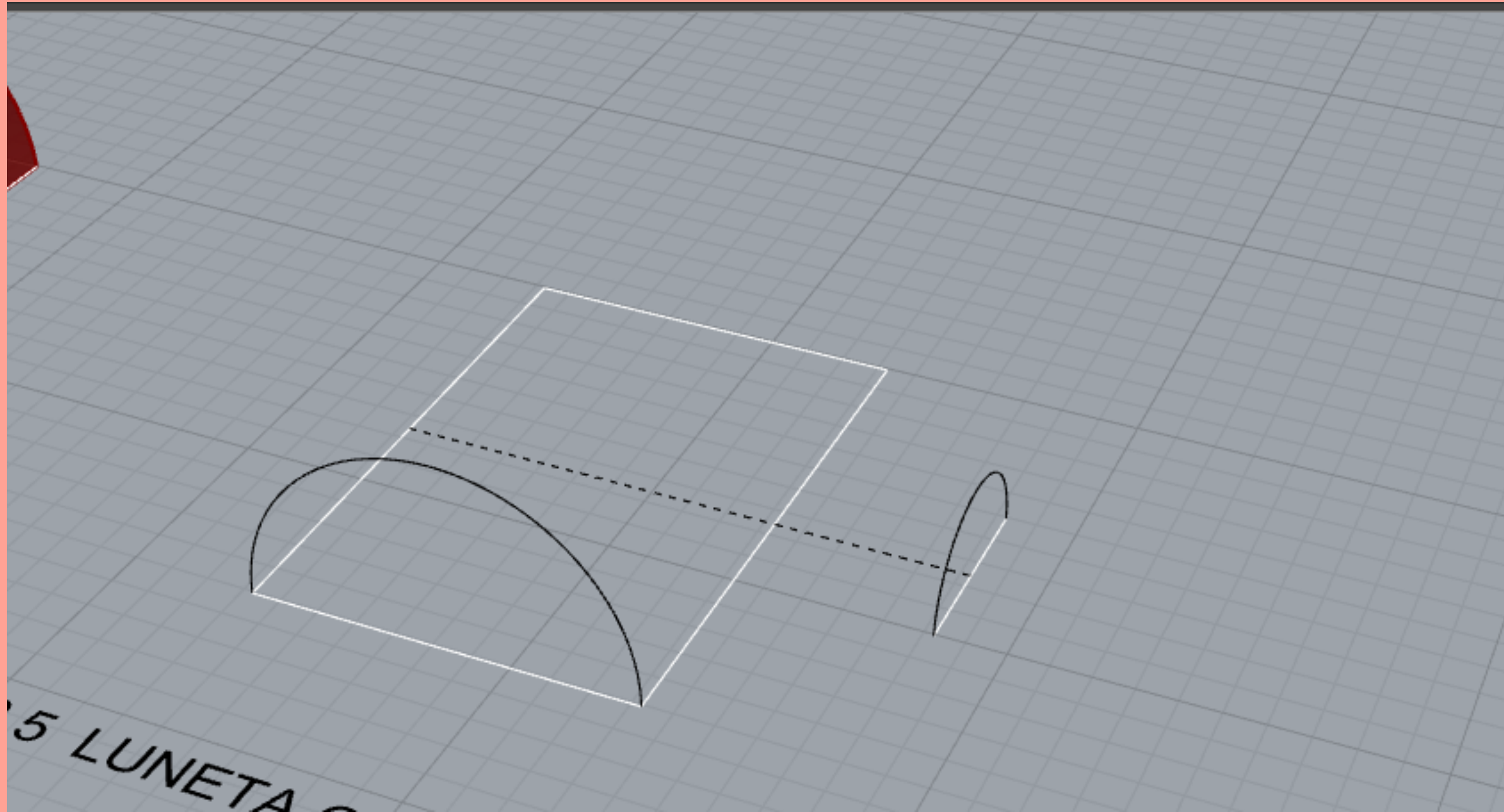


CIRCLES VERTICAIS COM RAIO DE
TAMNHO DO LADO DO RETÂNGULO

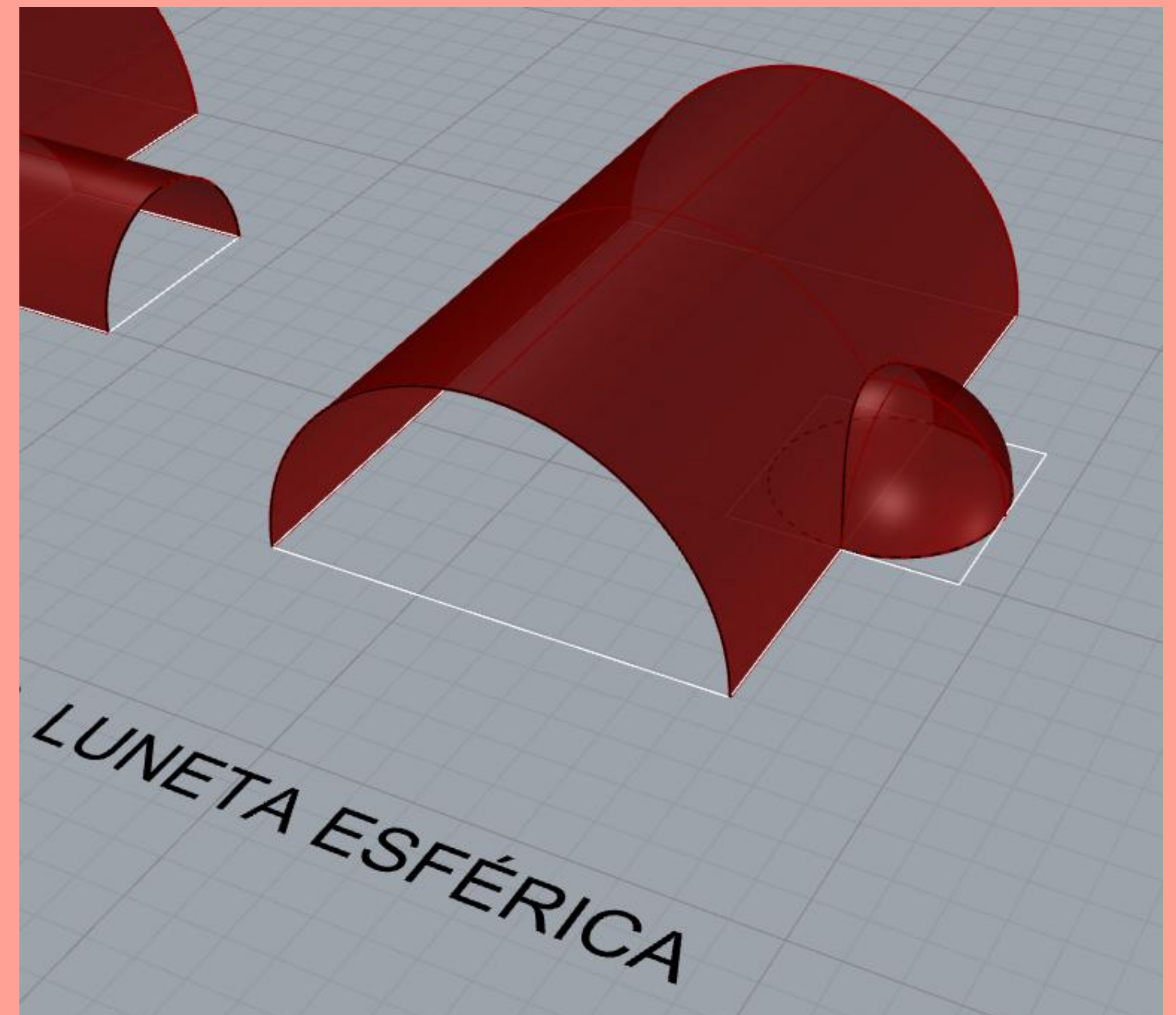


TRIM + EXTRUDECRV

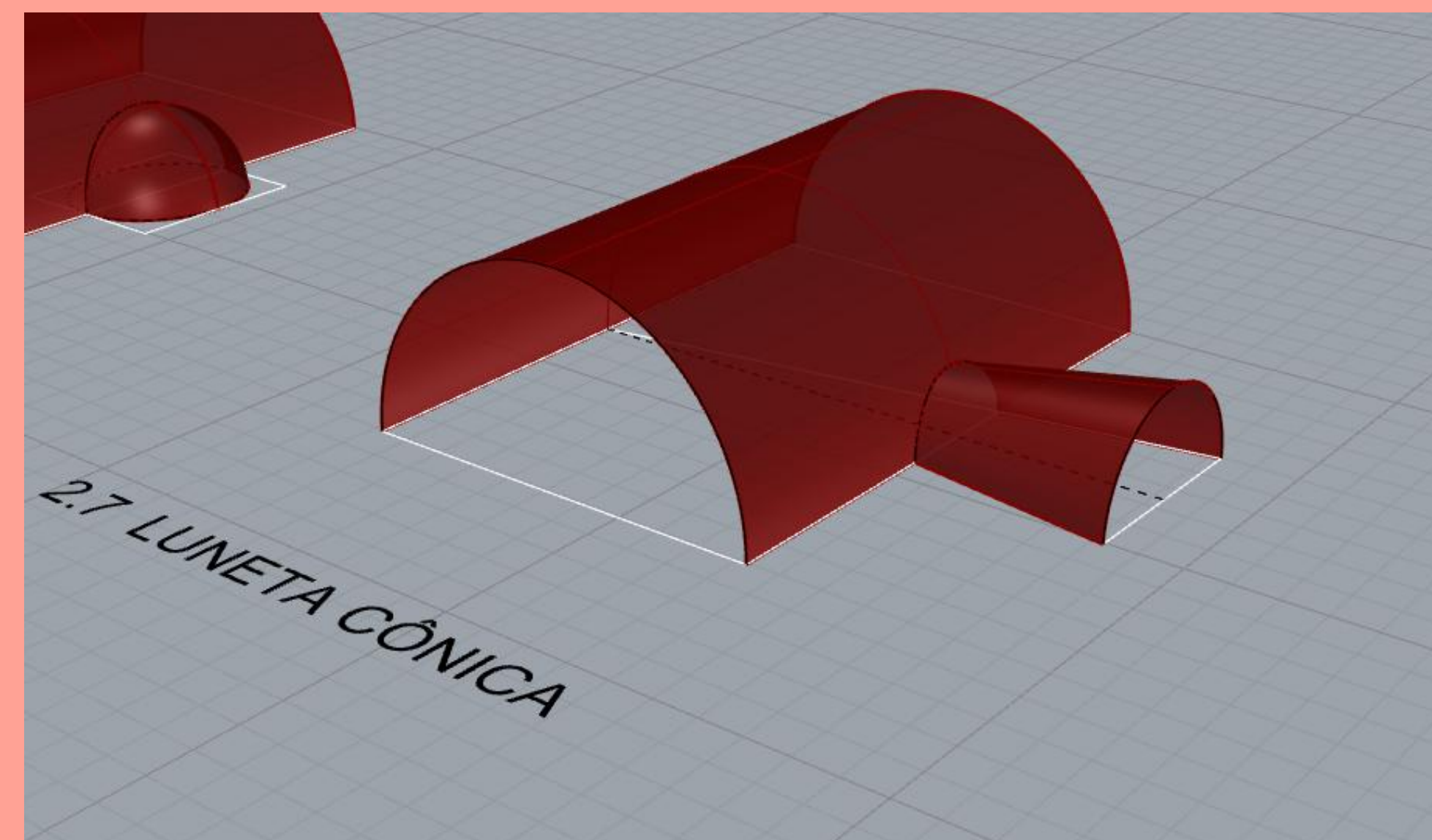
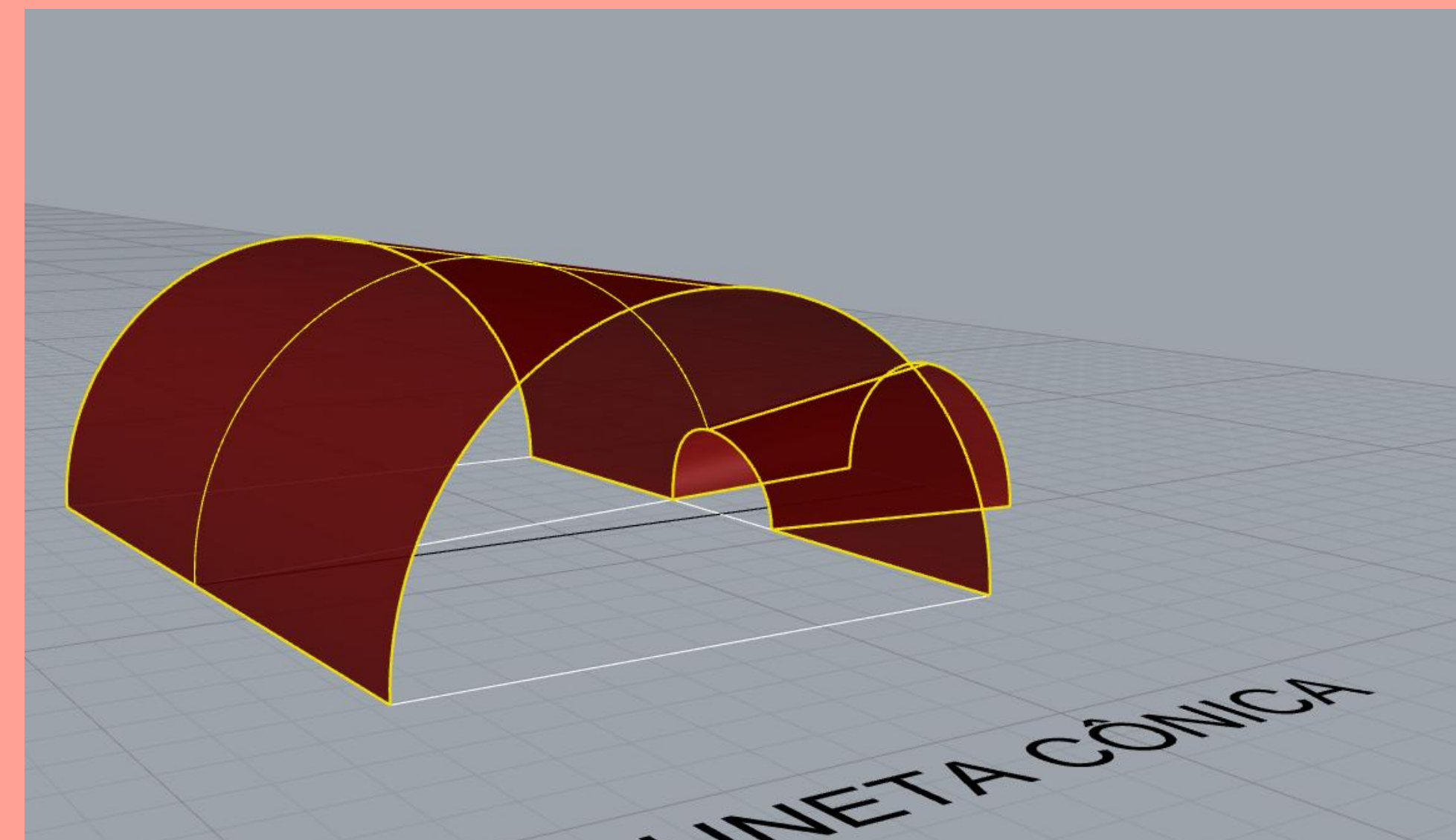
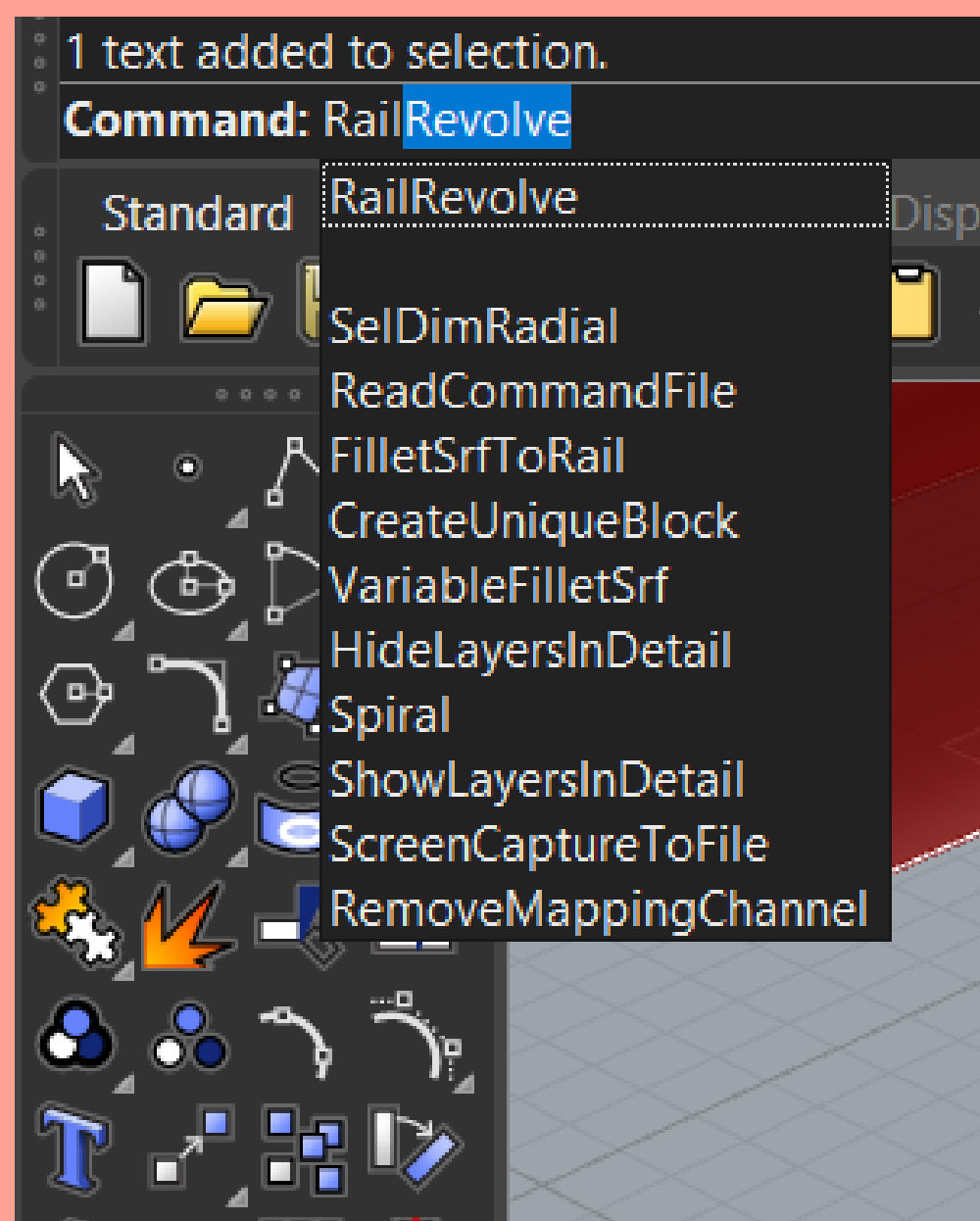
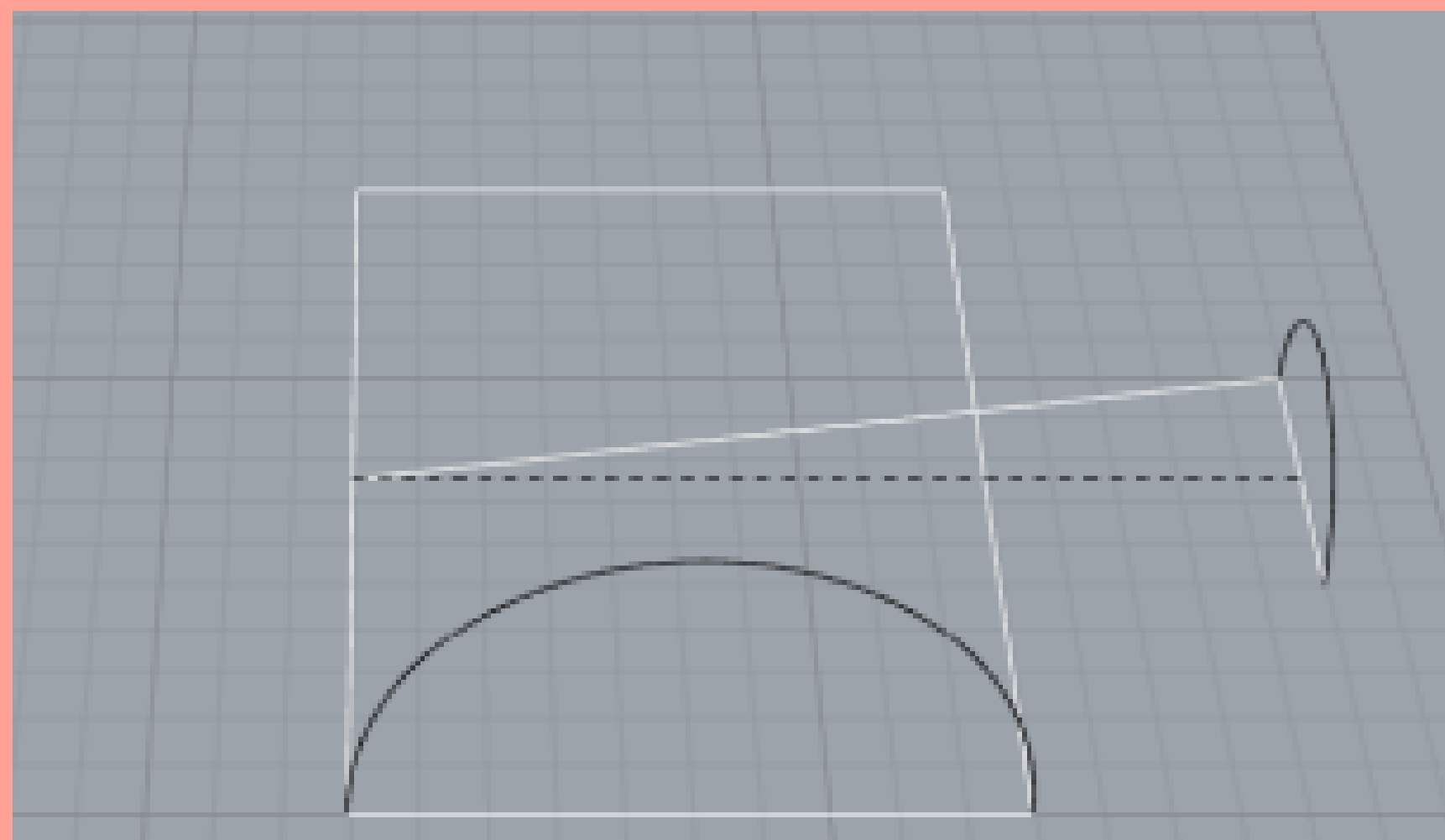
ABÓBADA OGIVAL



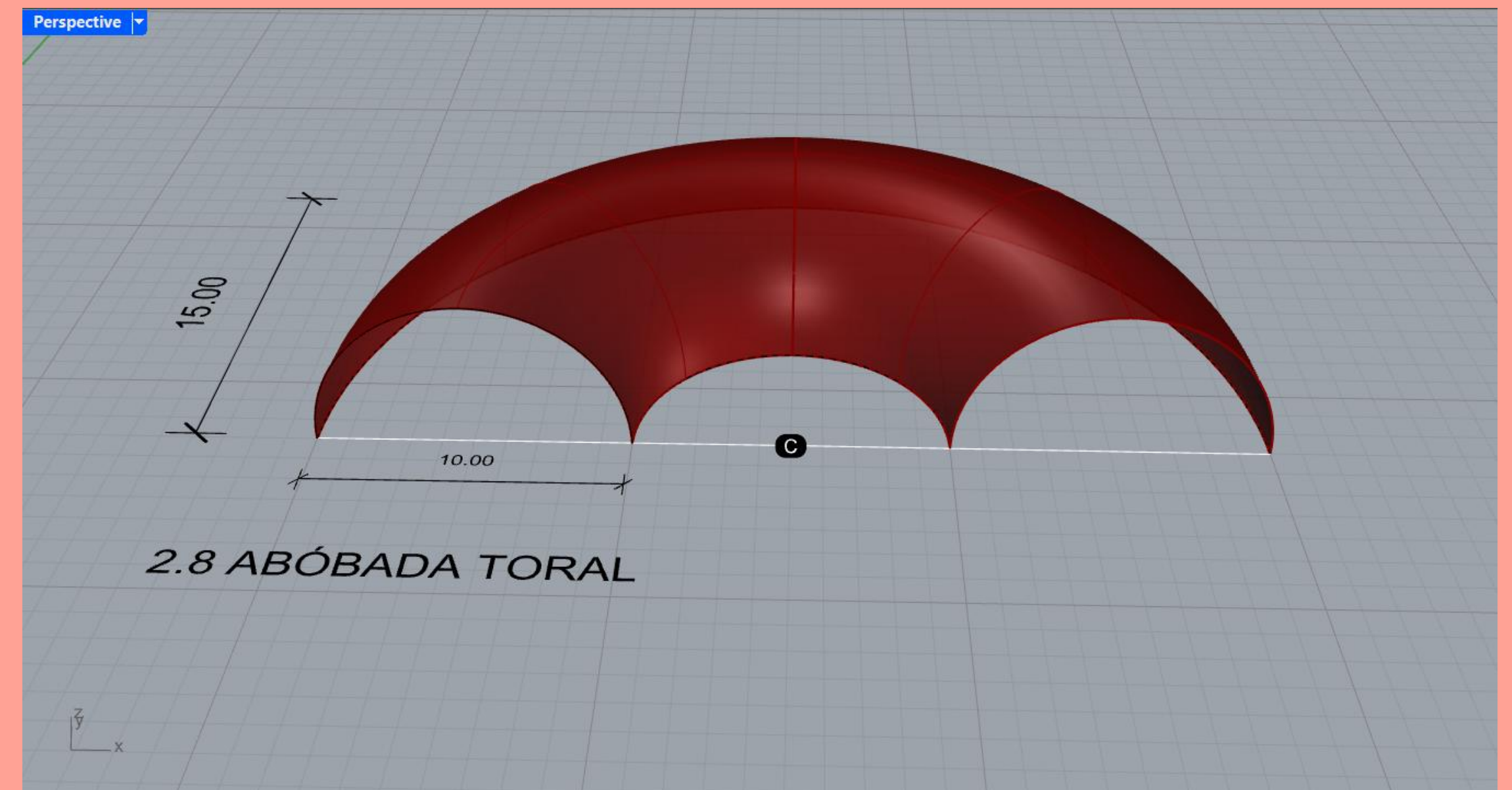
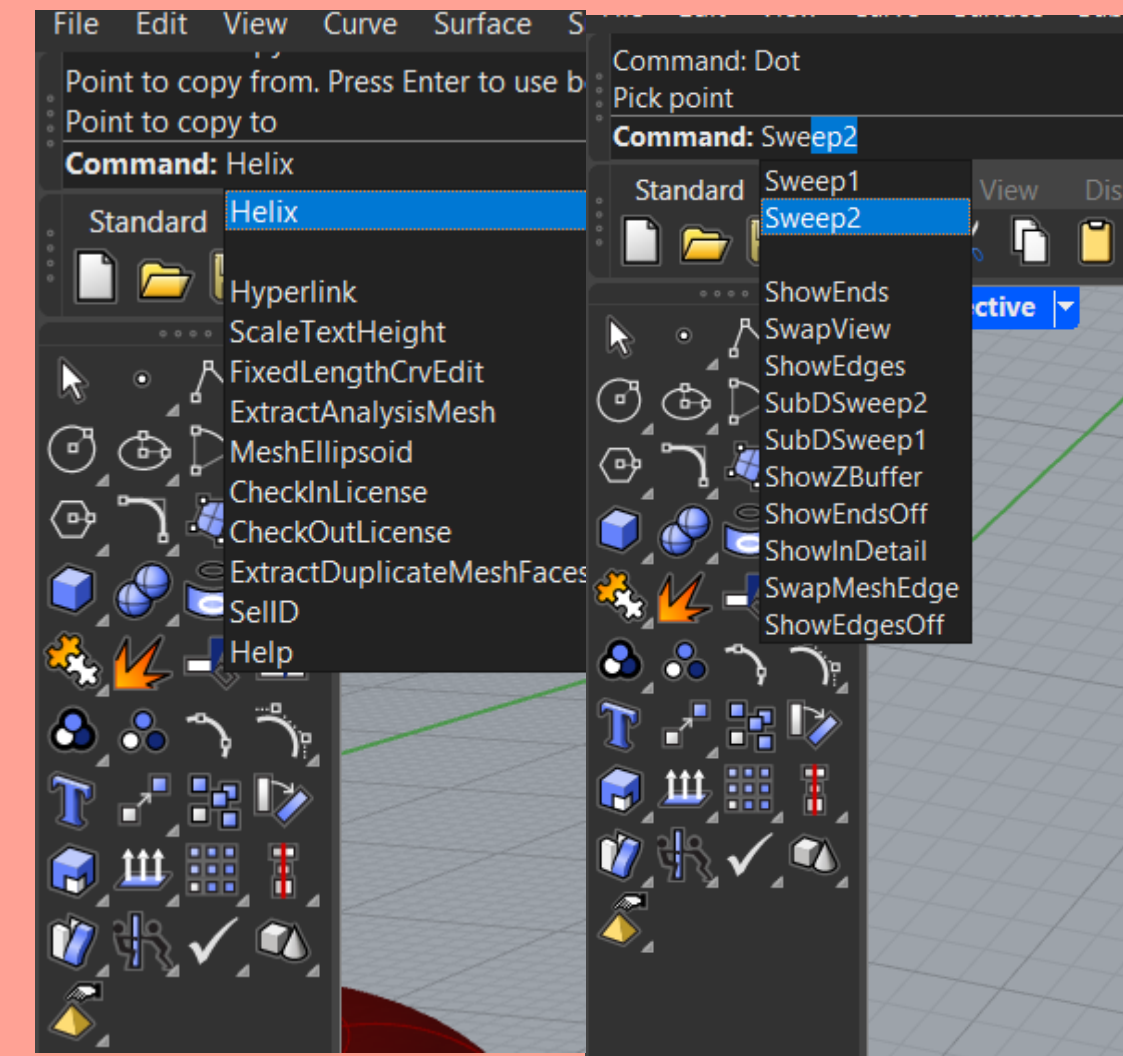
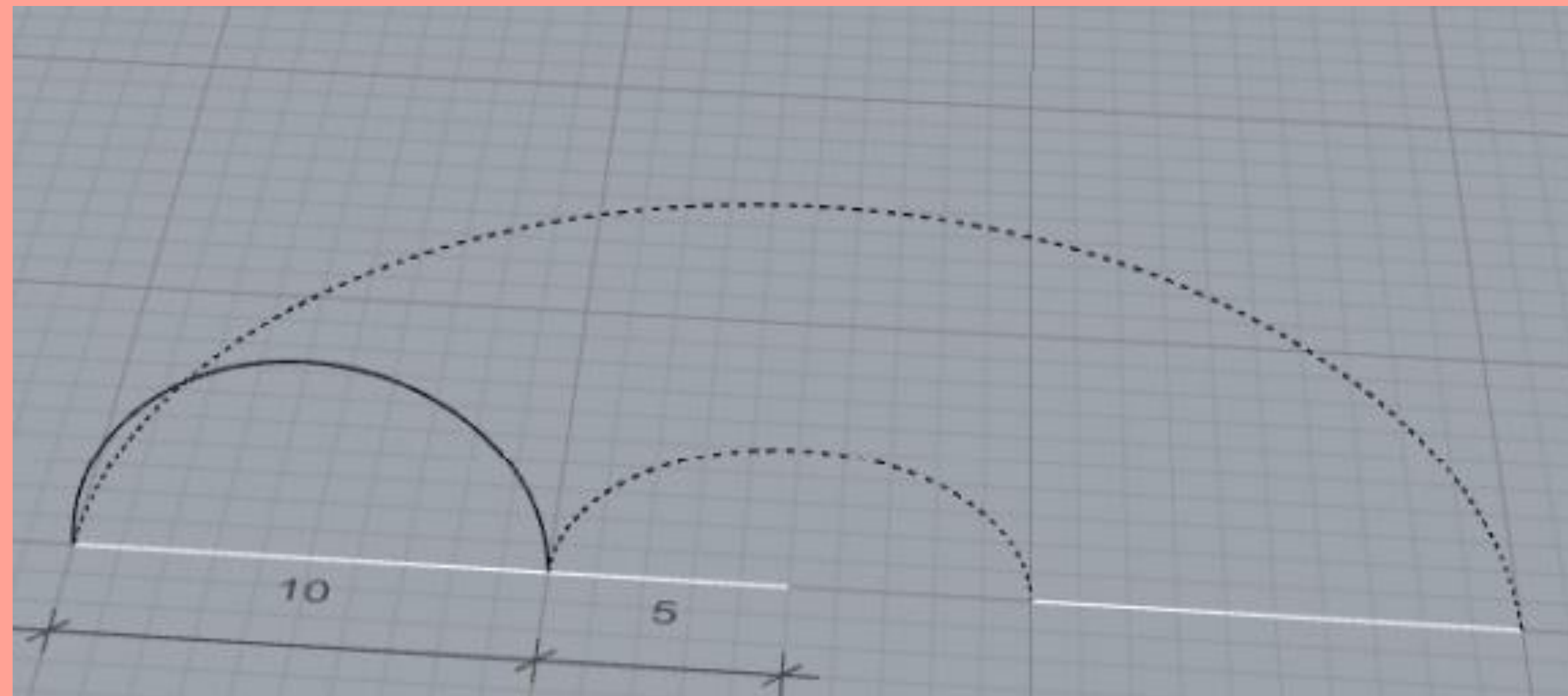
LUNETAS CILÍNDRICAS



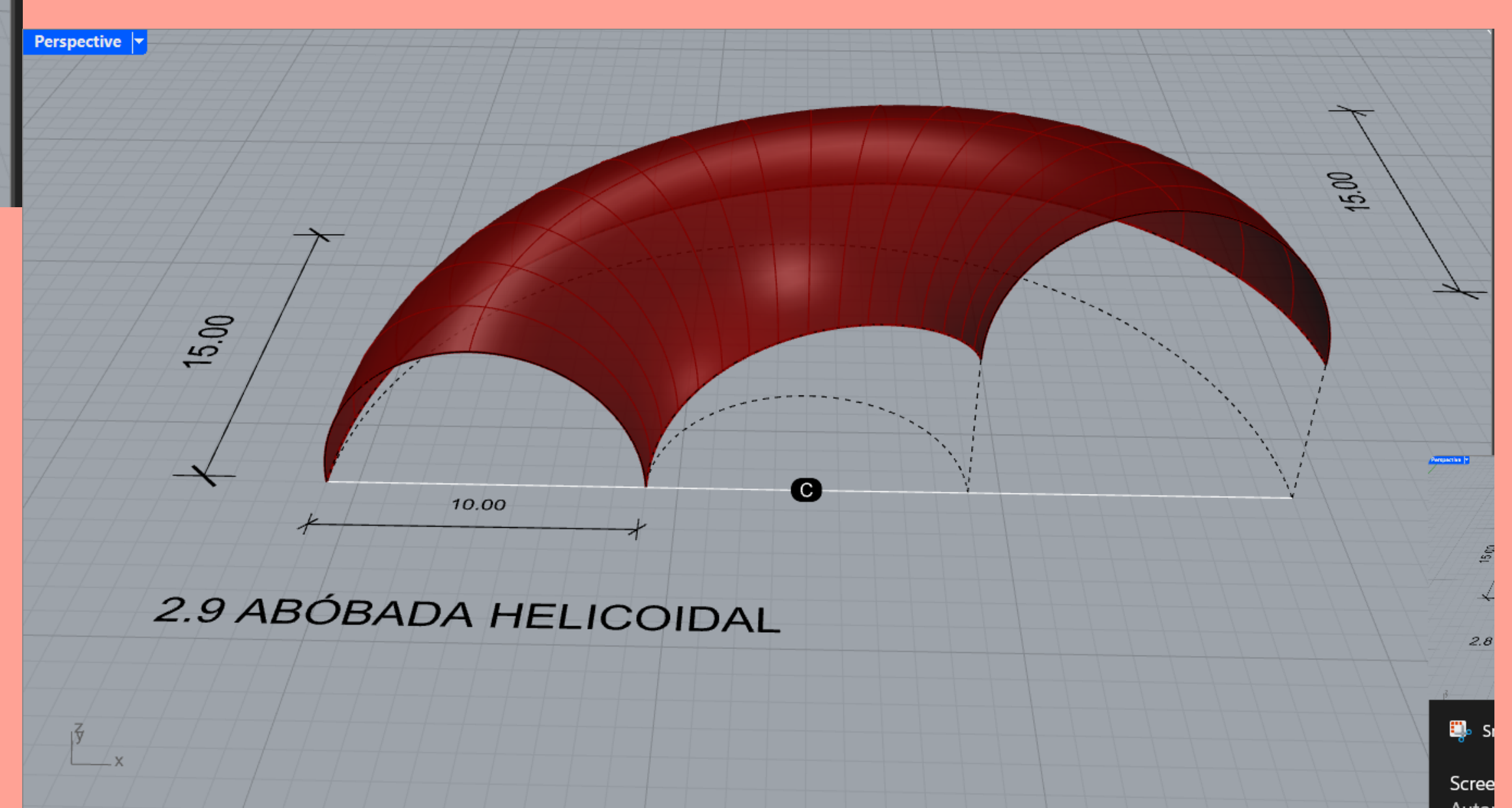
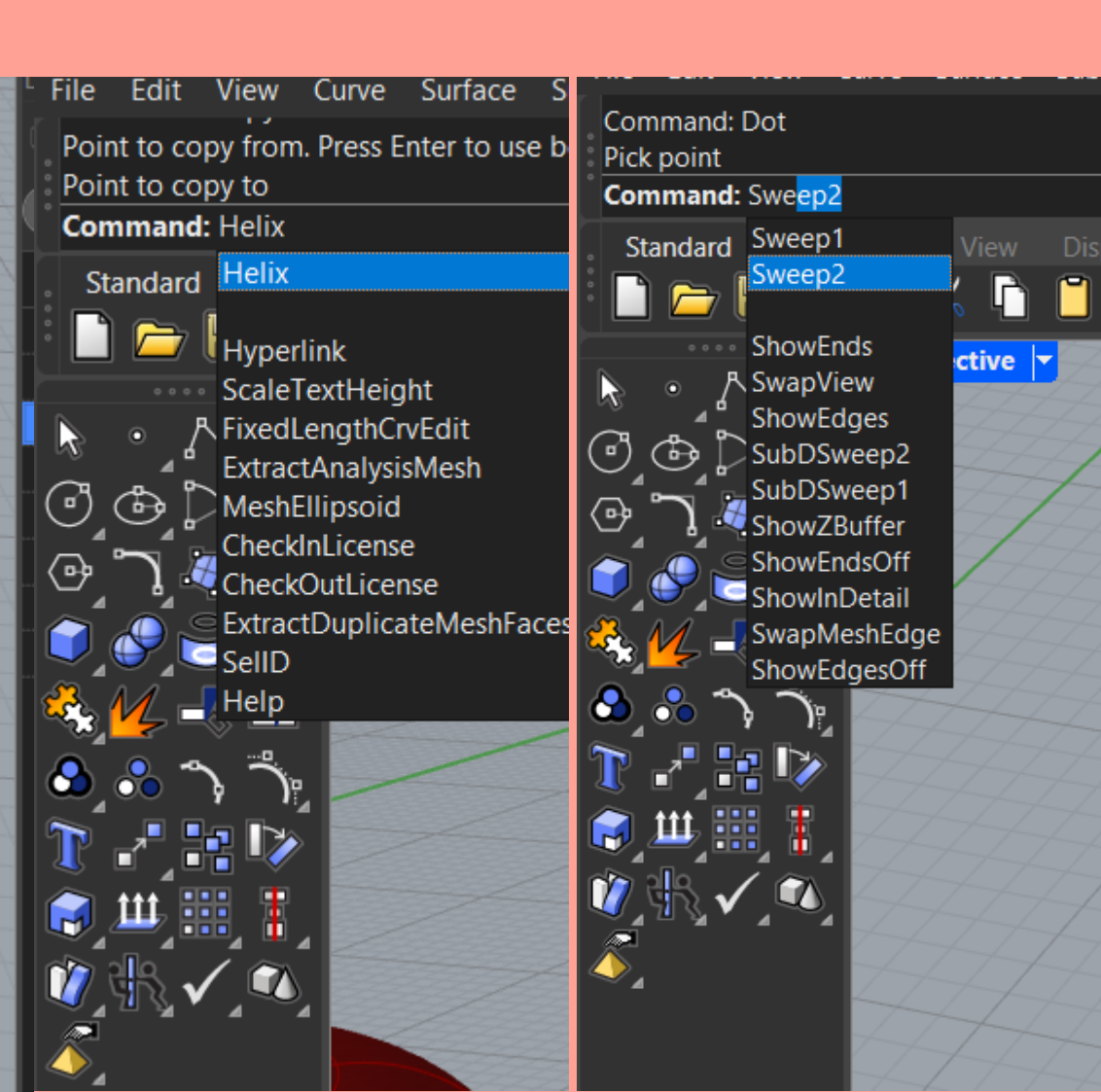
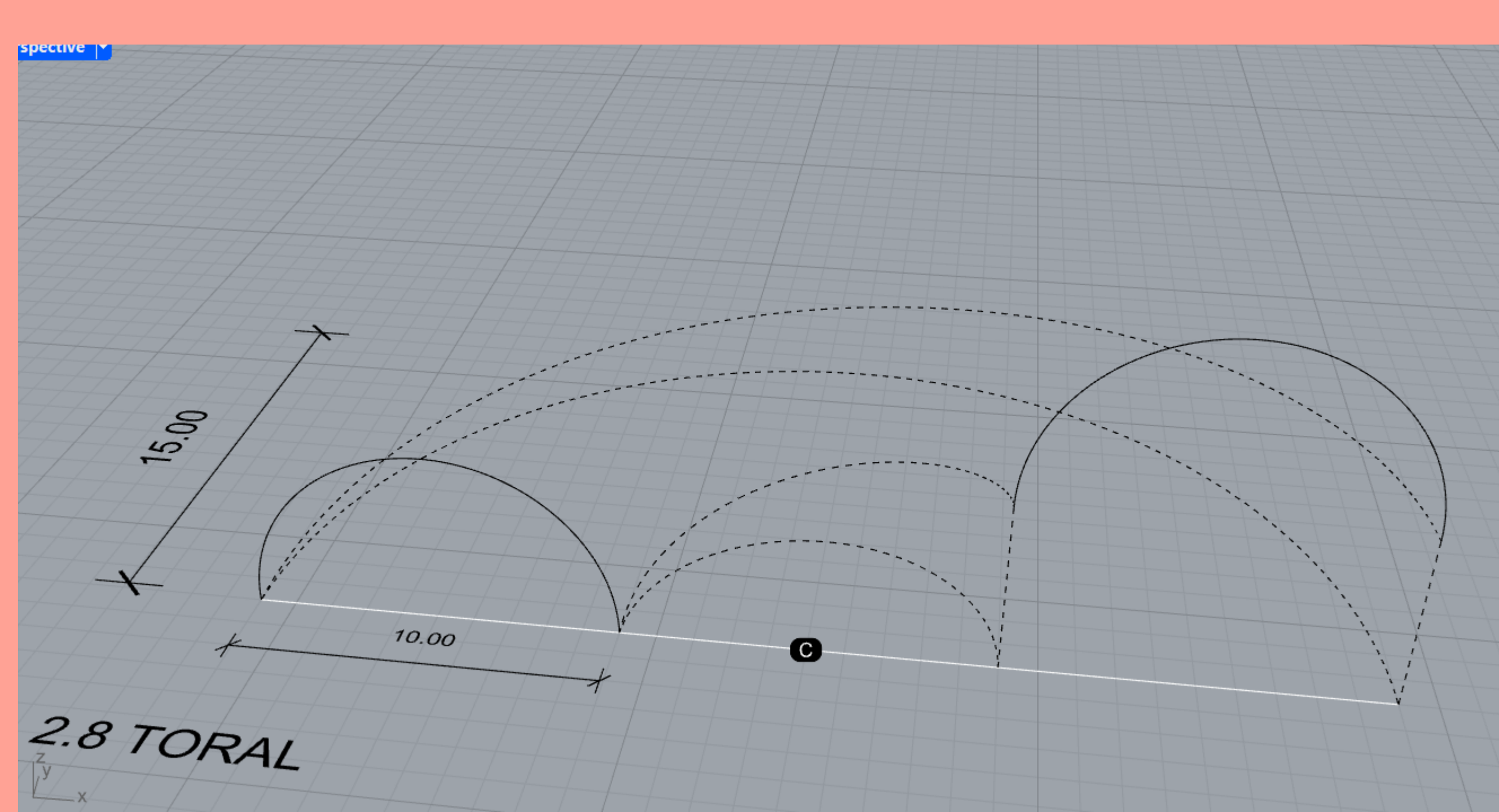
LUNETA ESFÉRICA



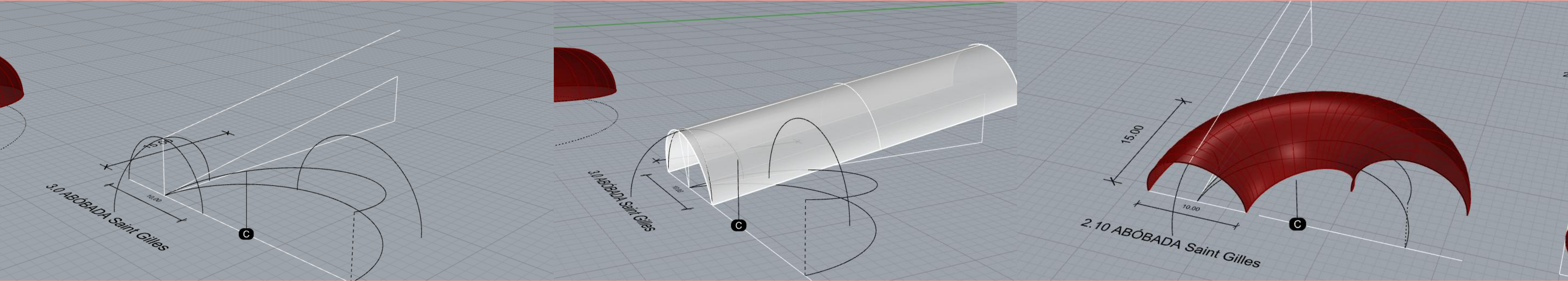
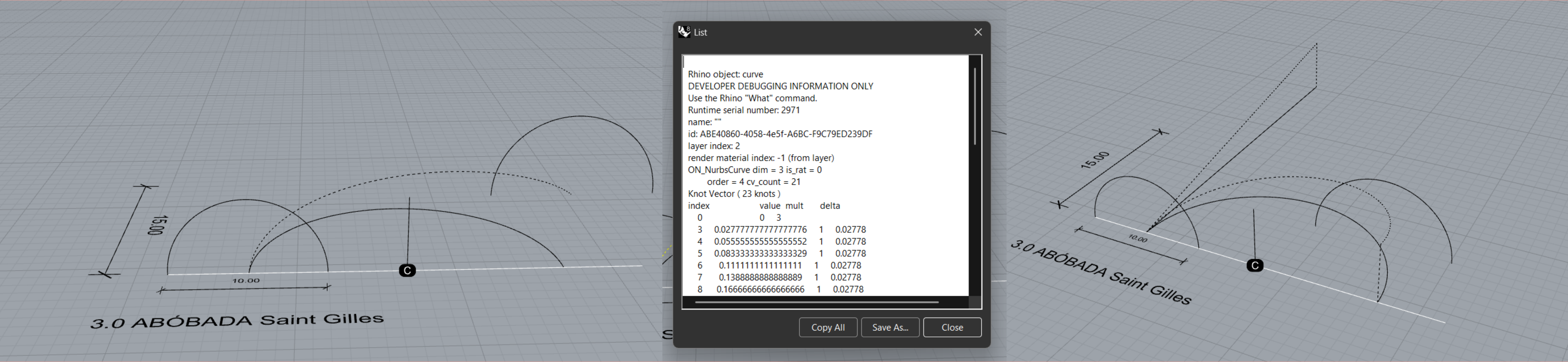
LUNETTA CÔNICA



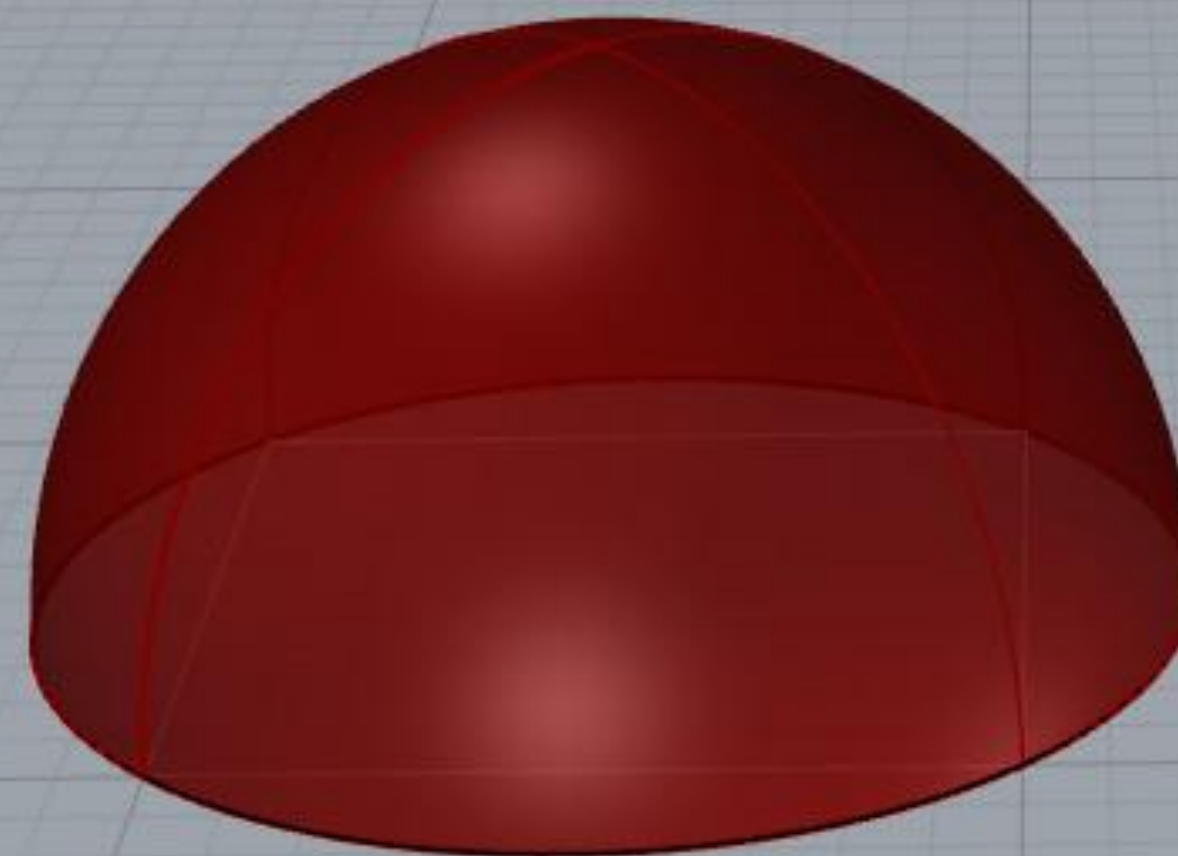
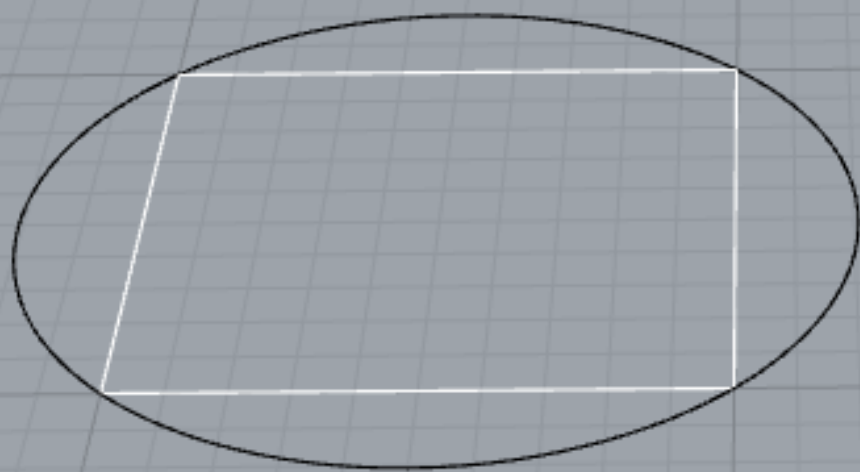
ABÓBADA TORAL



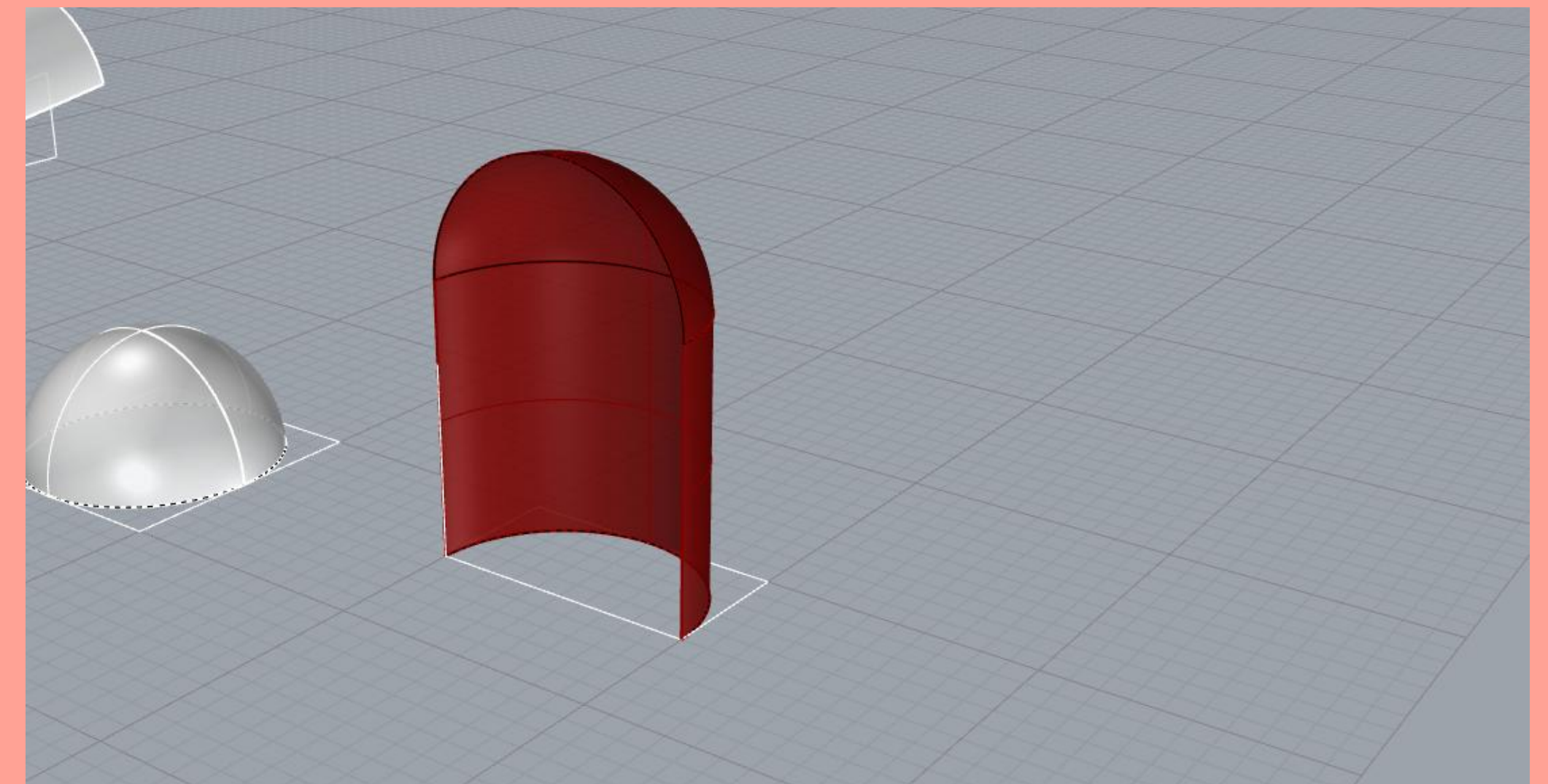
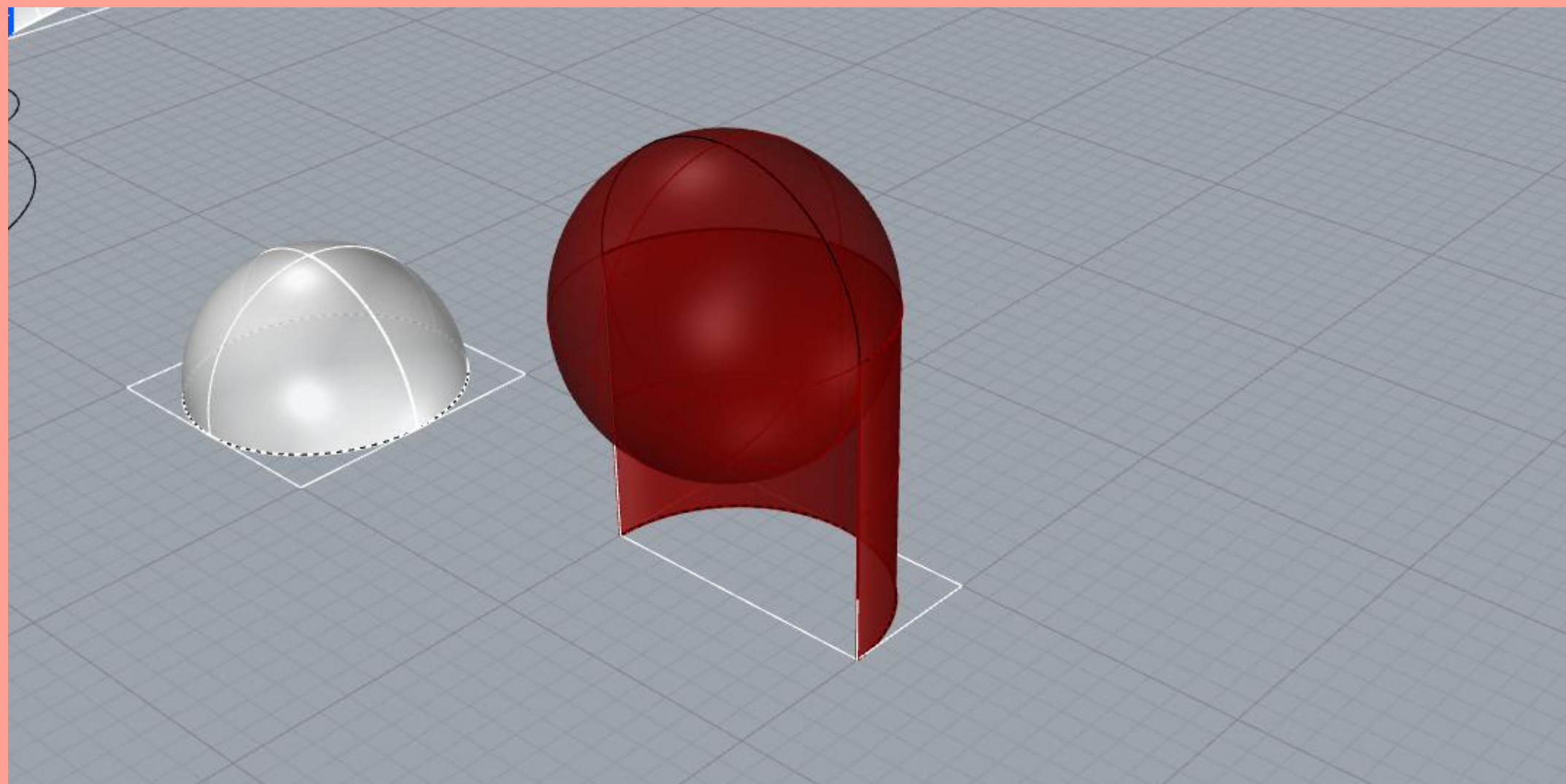
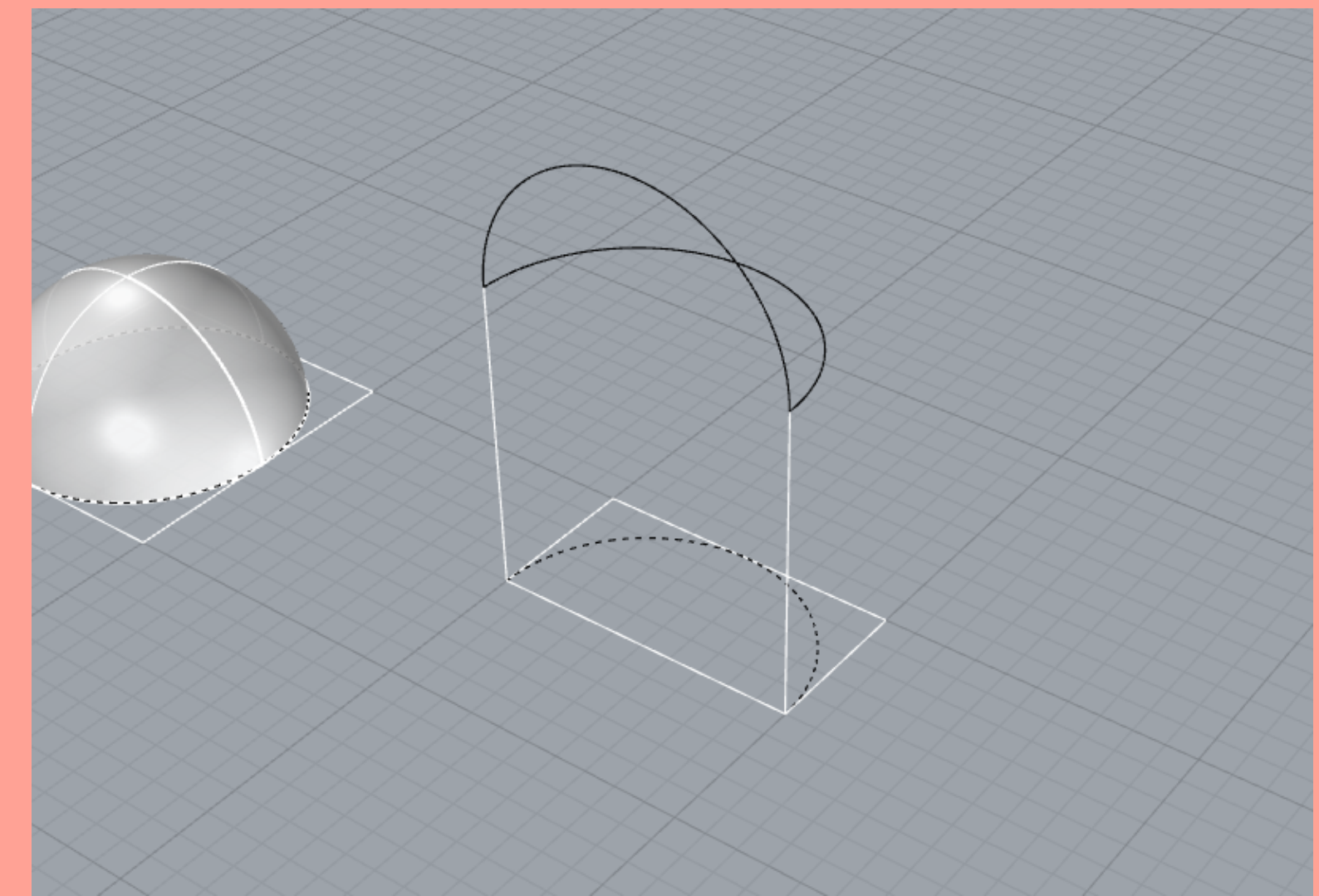
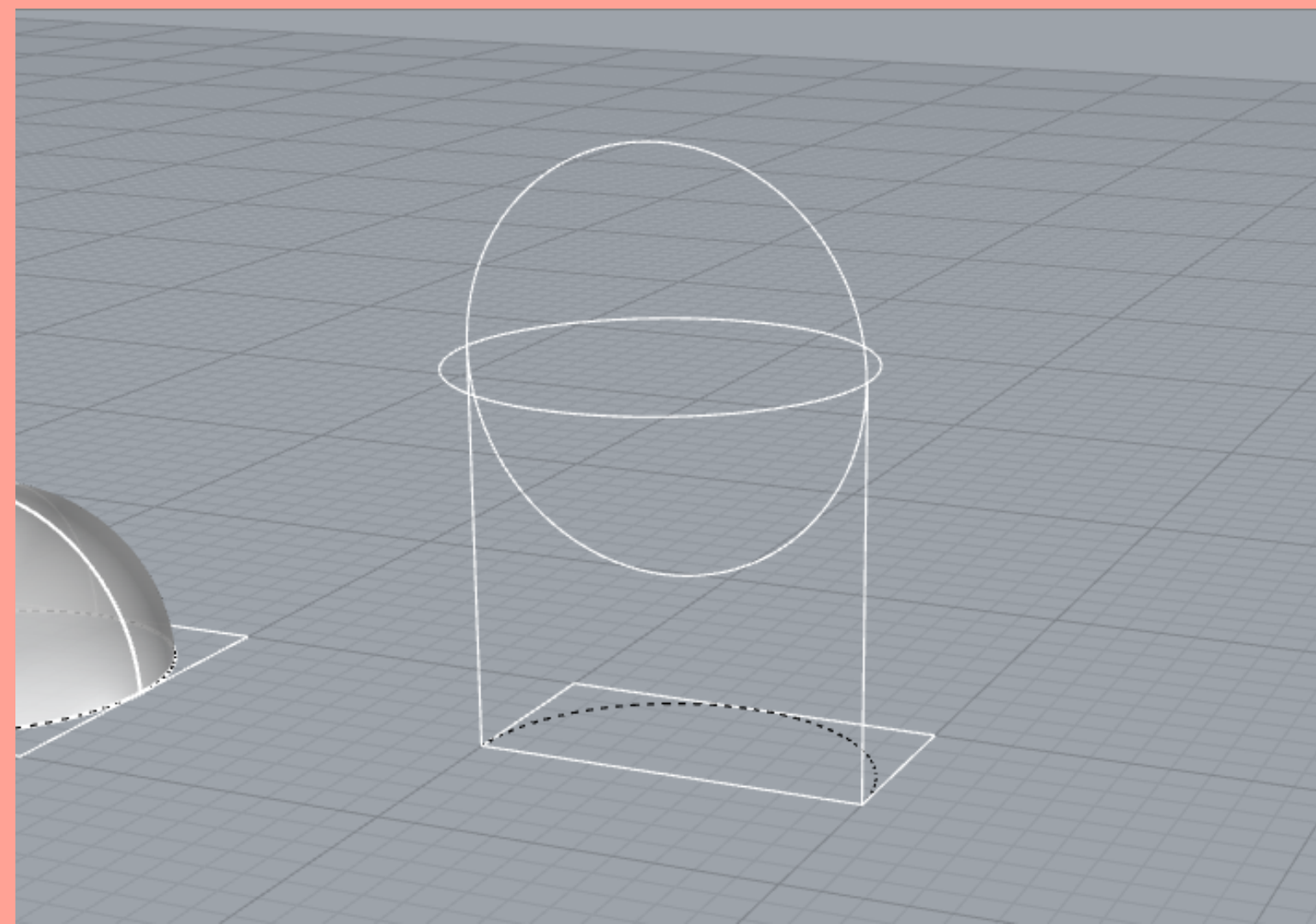
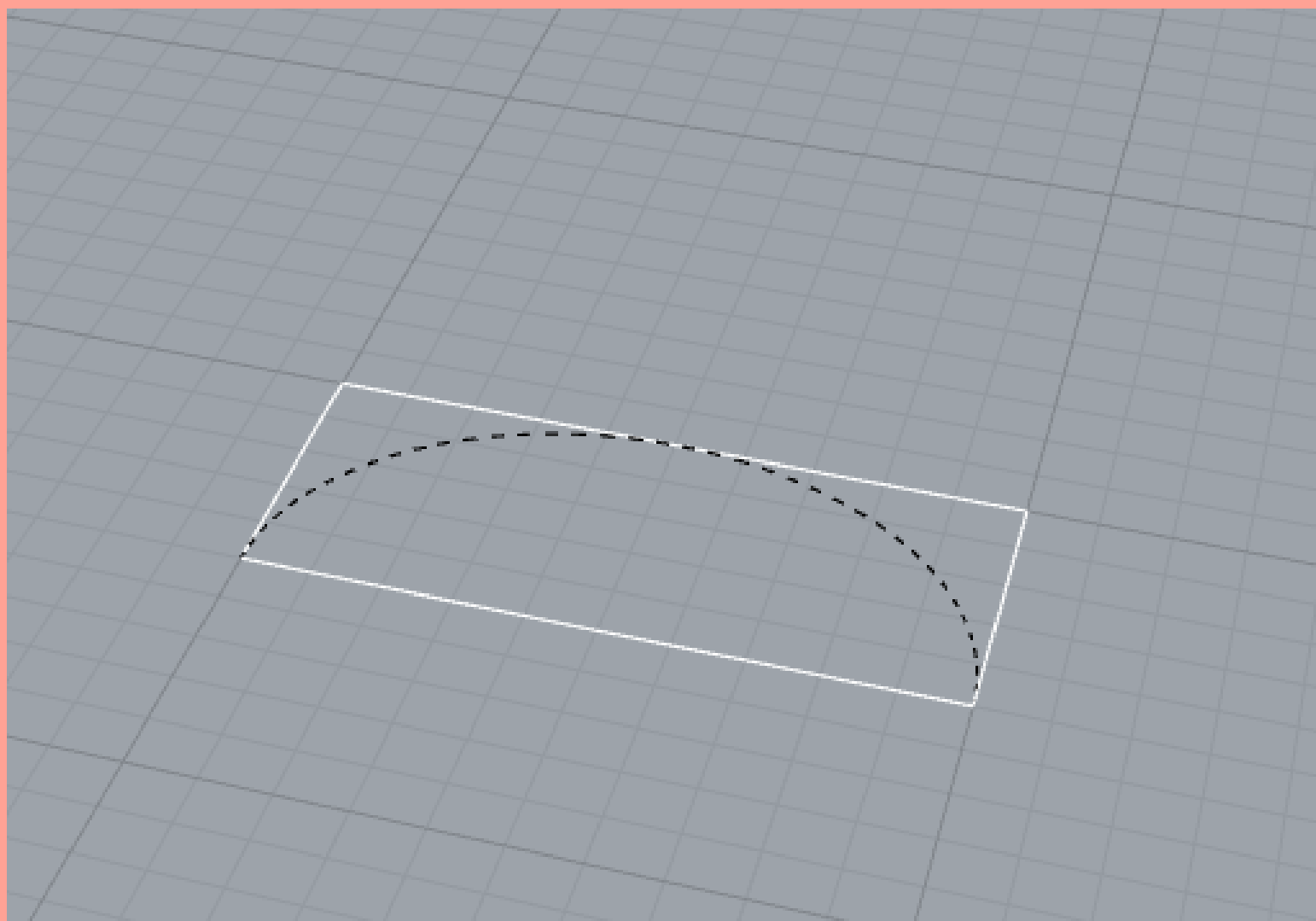
ABÓBADA HELICOIDAL



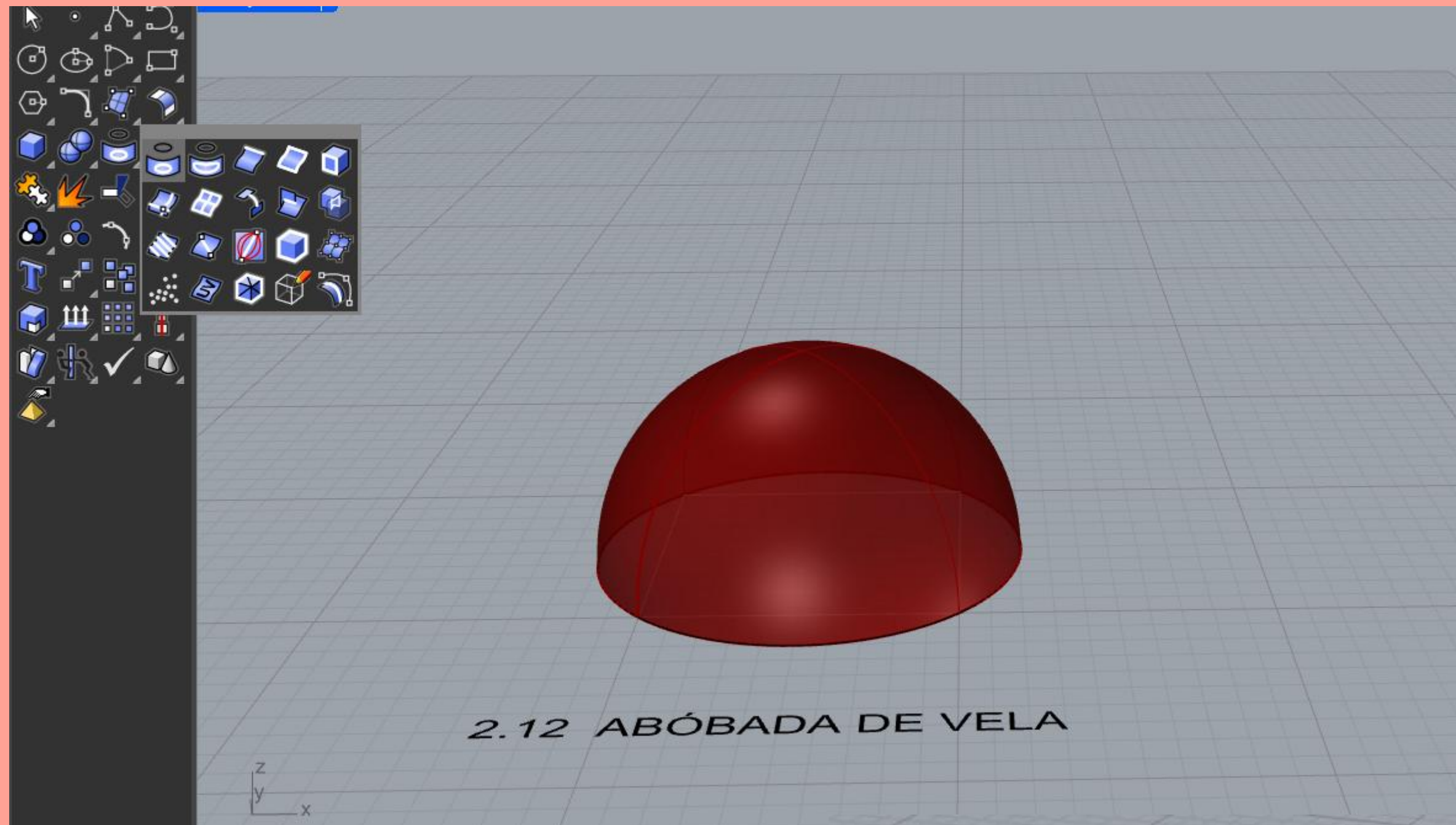
ABÓBADA SAINT GILLES



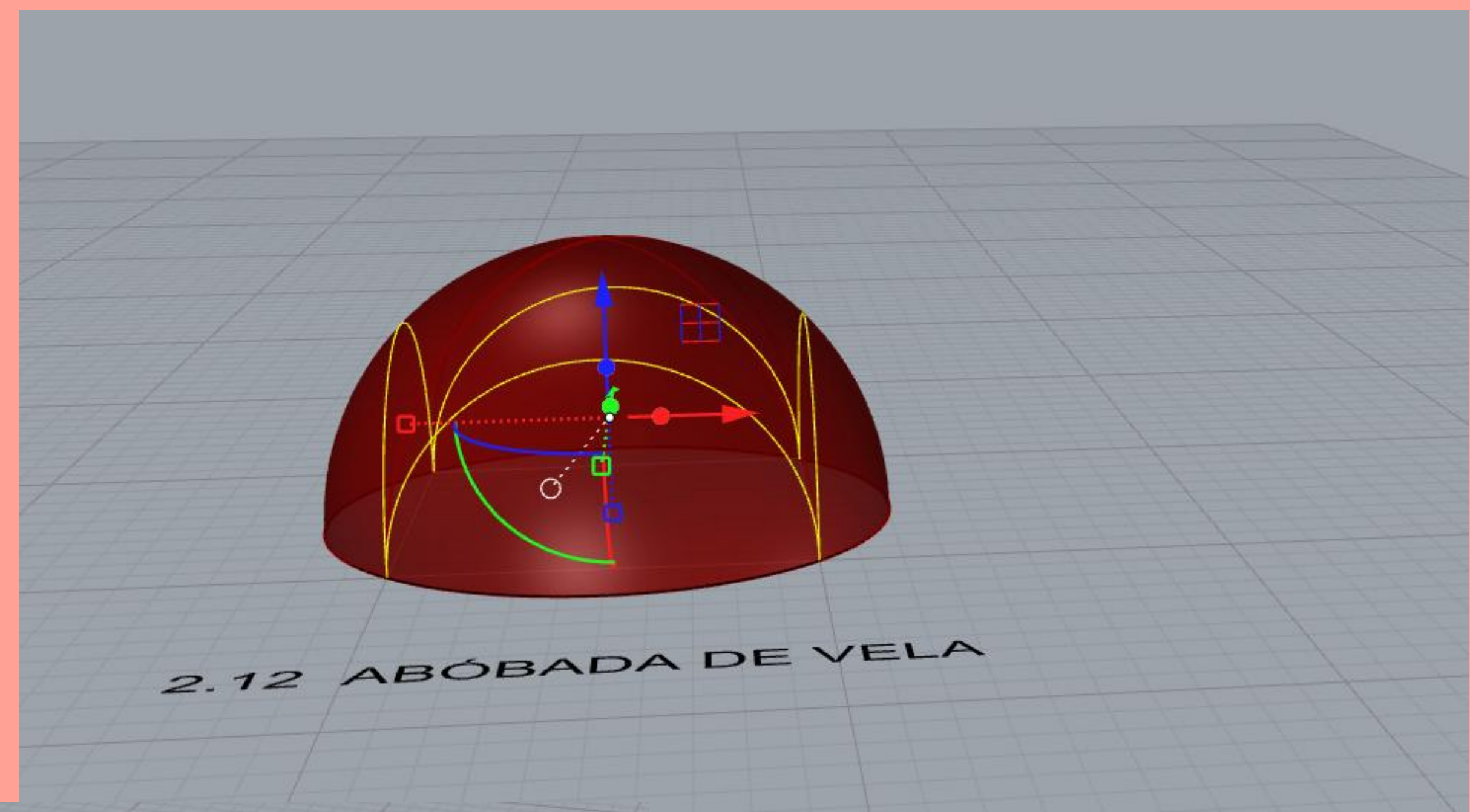
ABÓBADA ESFÉRICA



ABÓBADA DE FORNO



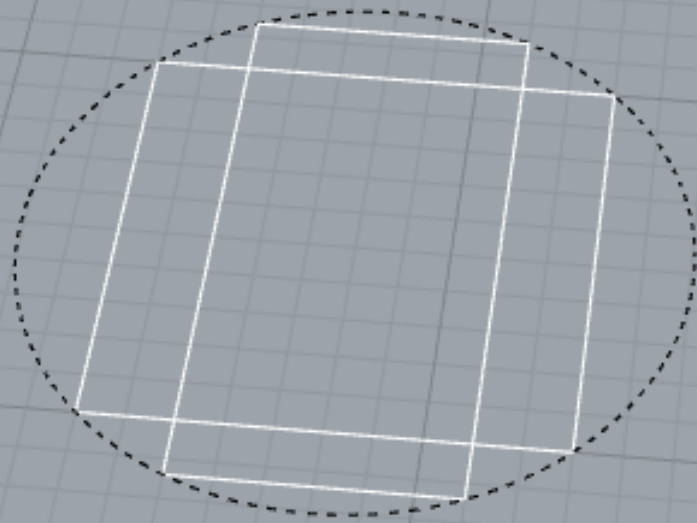
PROJECT CURVES



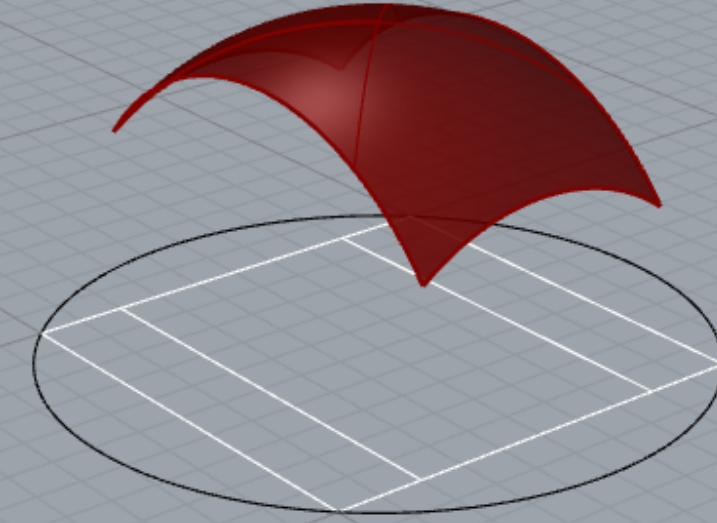
TRIM



ABÓBADA DE VELA

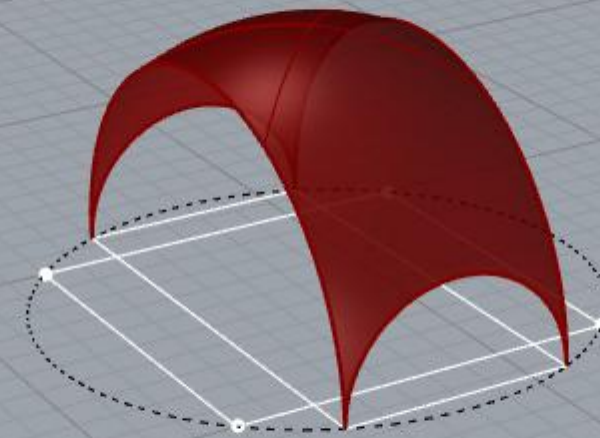


2.14-b ABÓBADA DE VELA ALONGADA



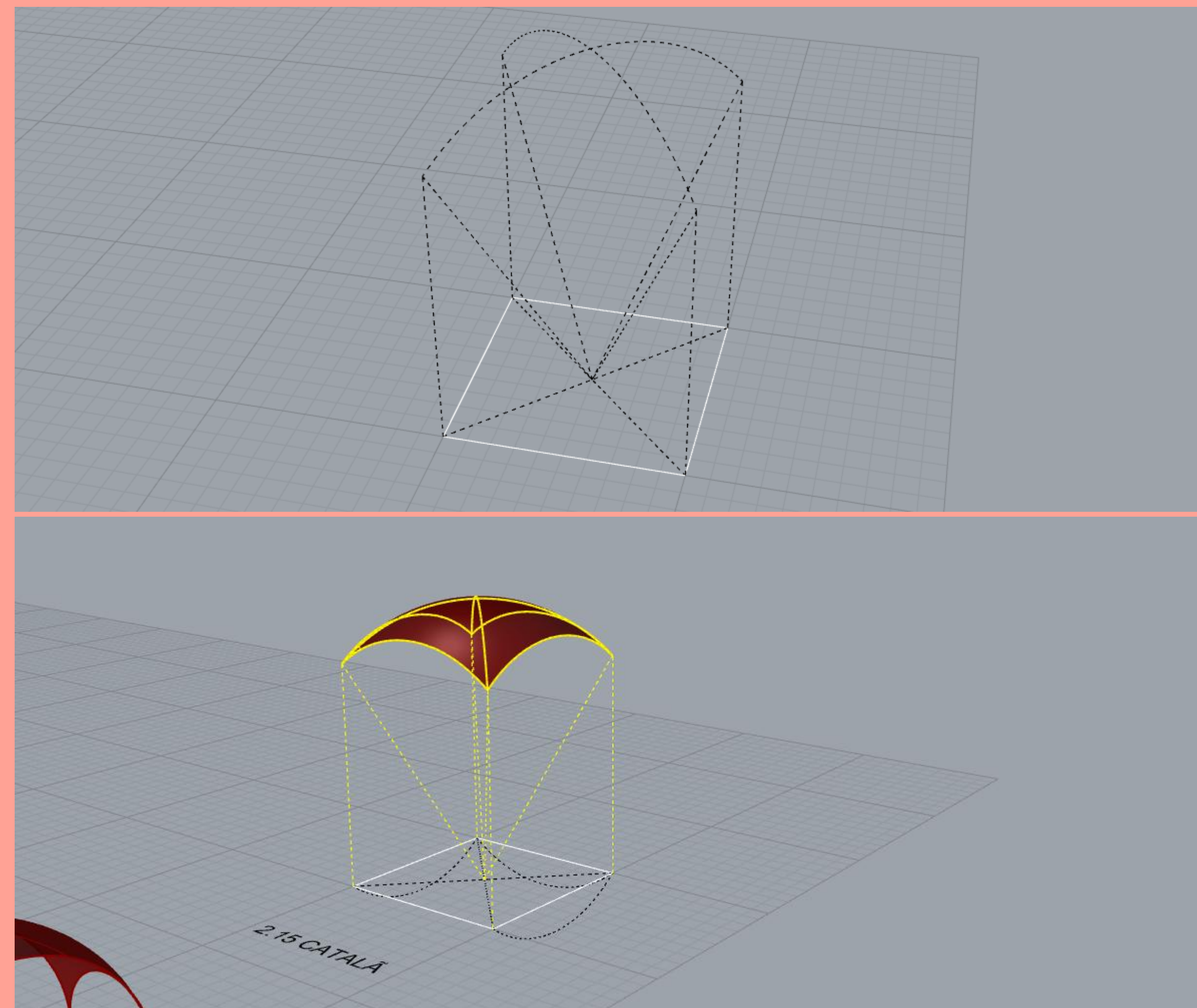
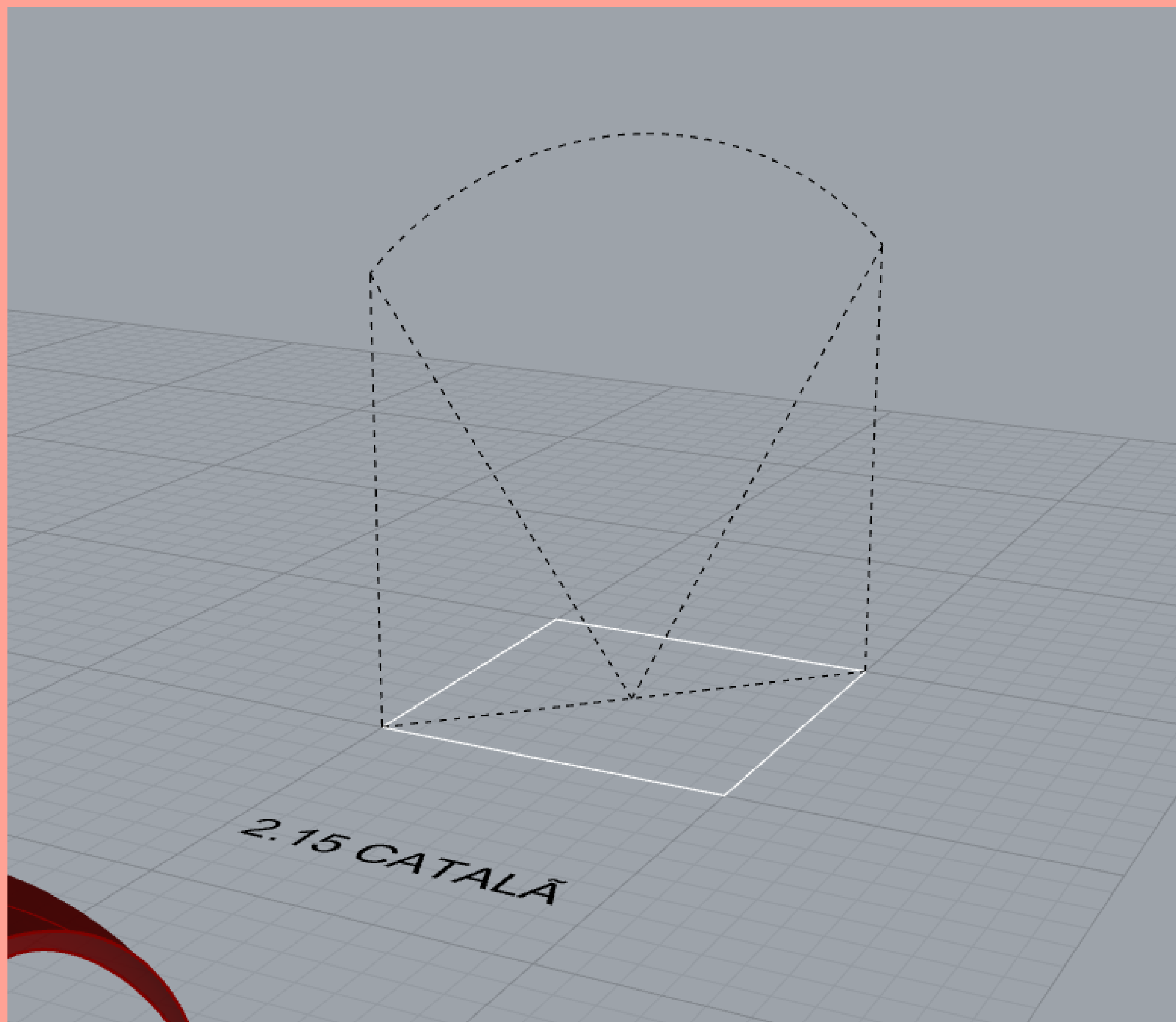
2.14 ABÓBADA DE VELA ALONGADA

PROJECT CURVES



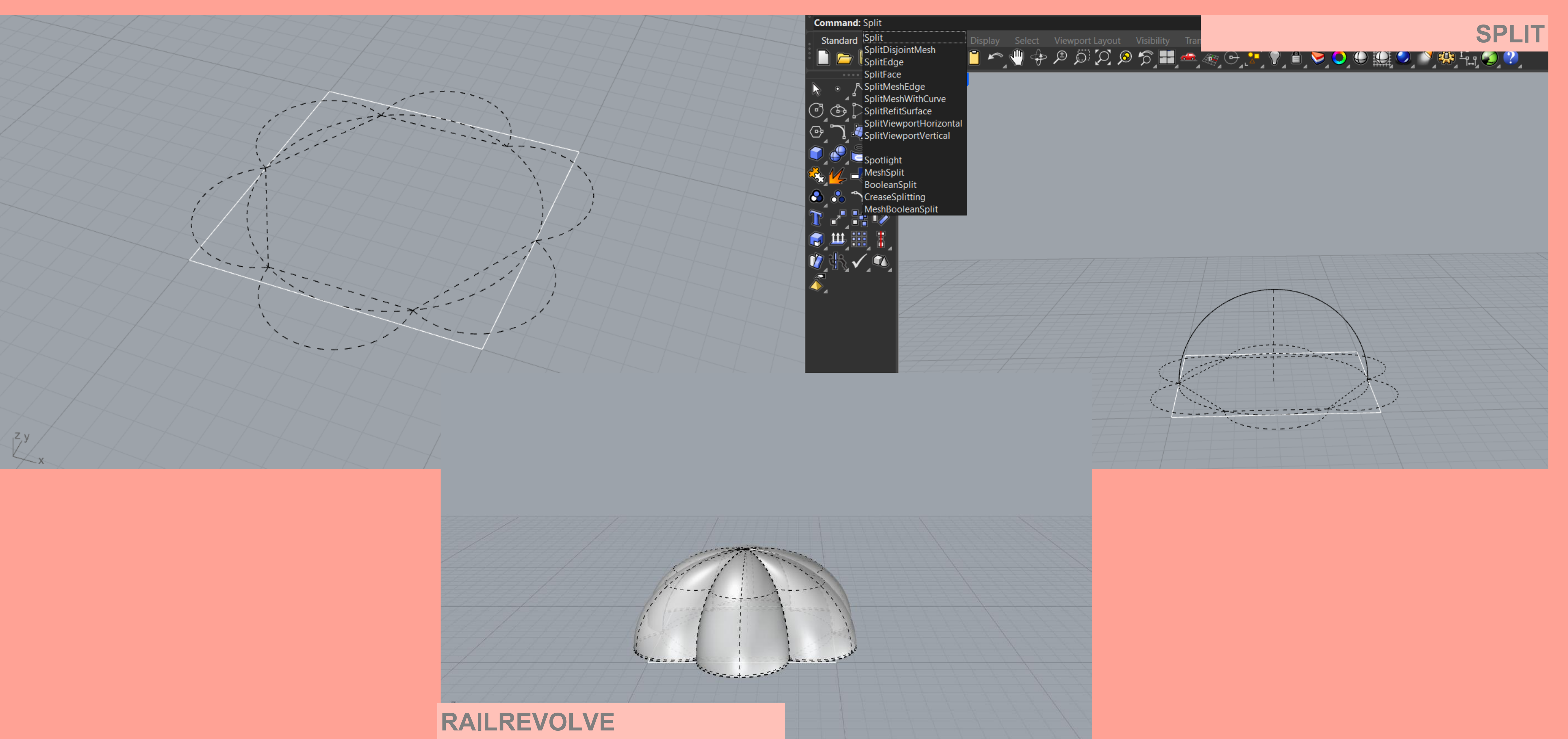
2.14-b ABÓBADA DE VELA ALONGADA

ABÓBADA DE VELA ALONGADA



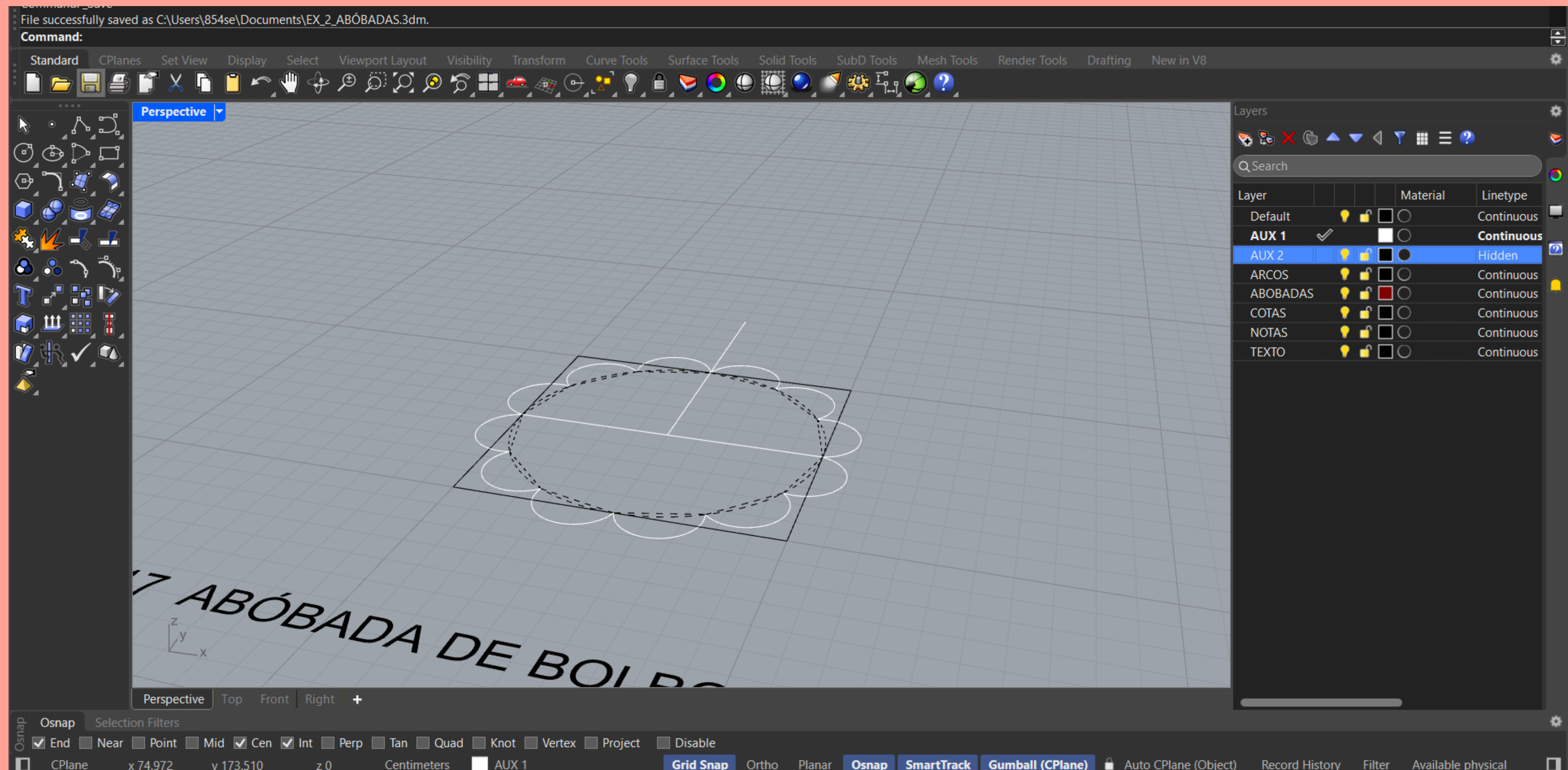
ABÓBADA CATALÃ

26-03-2026

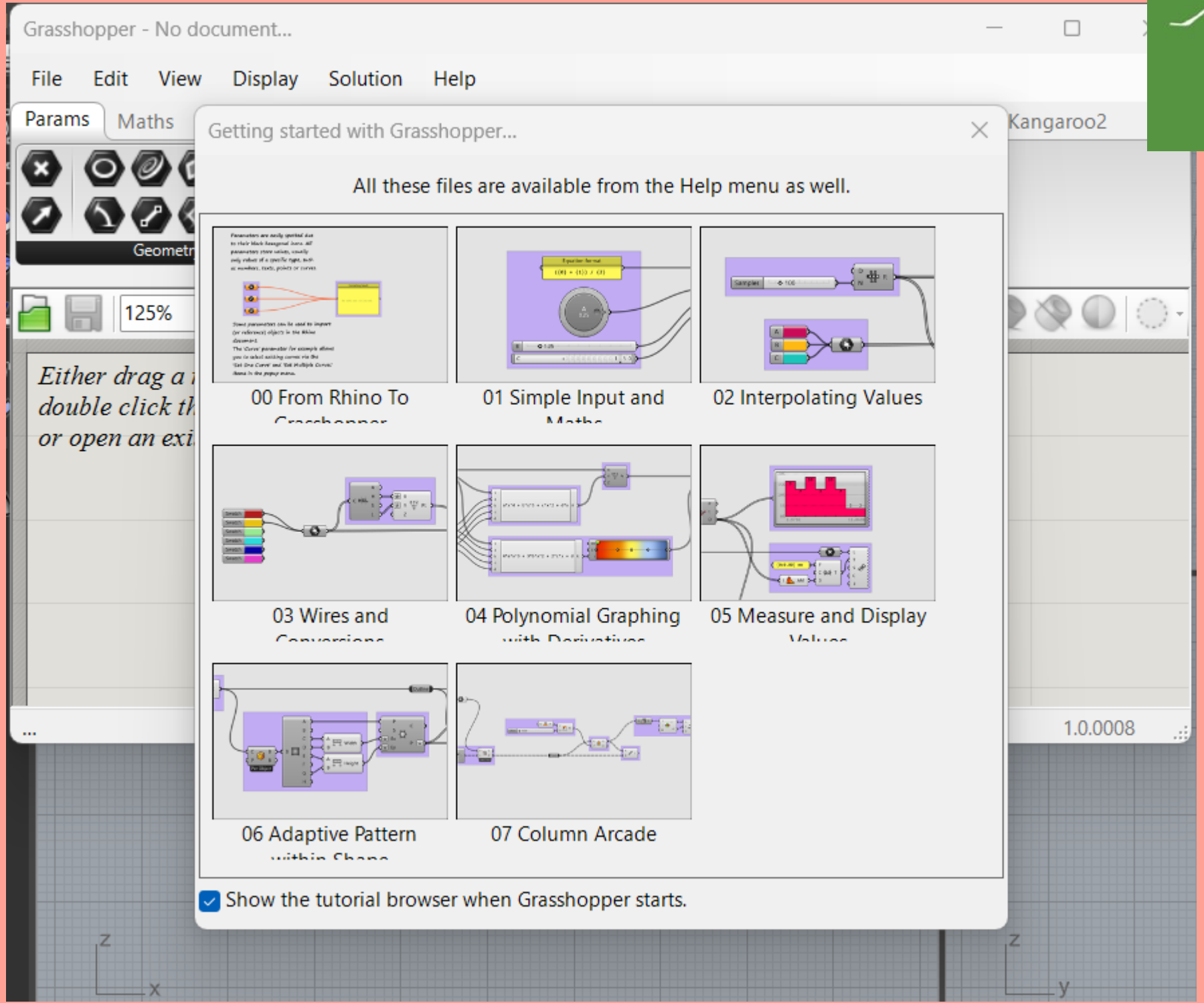
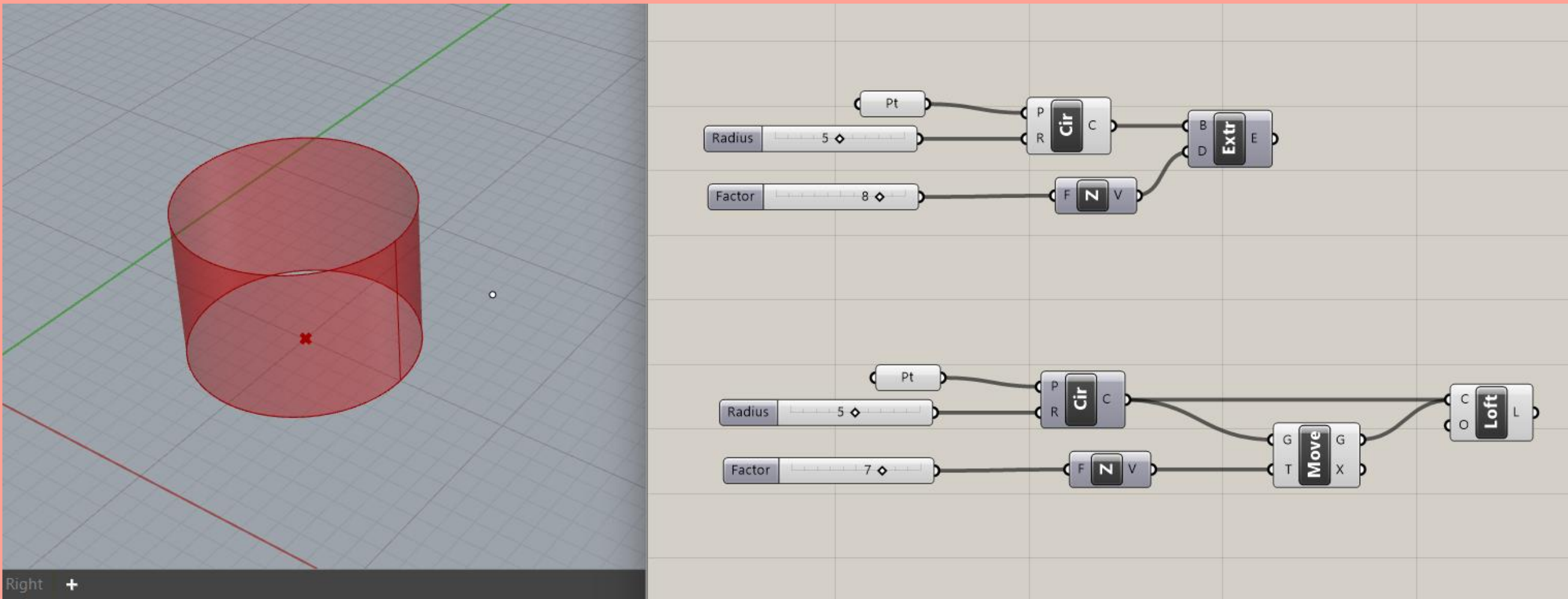
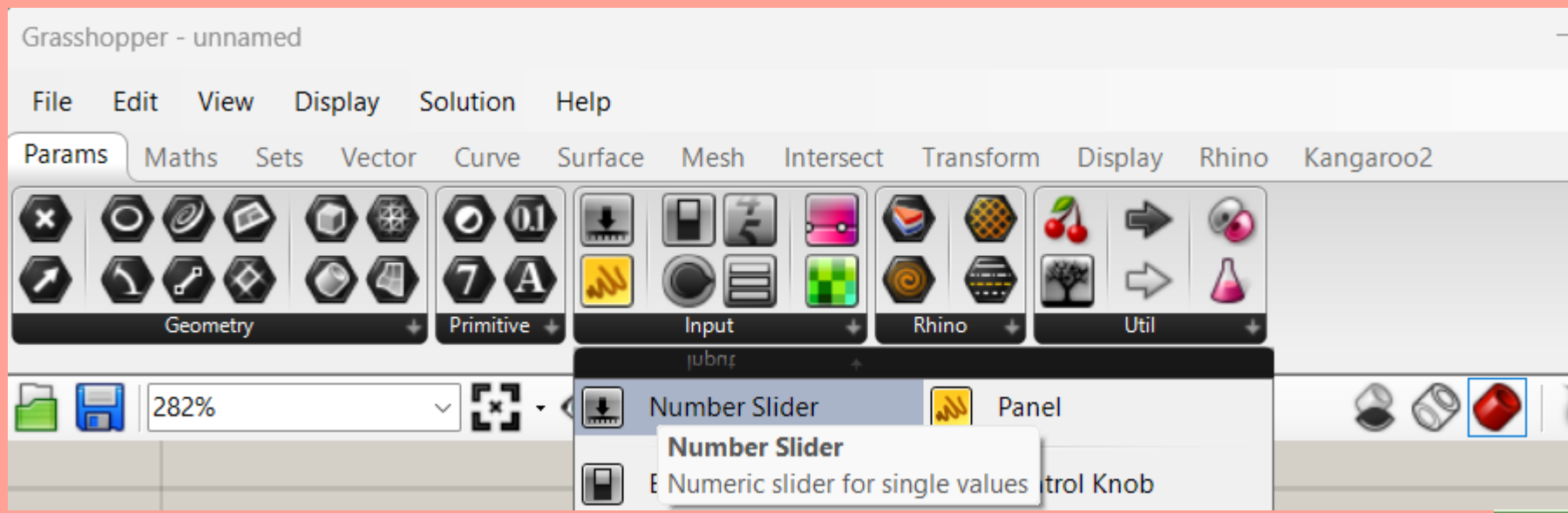
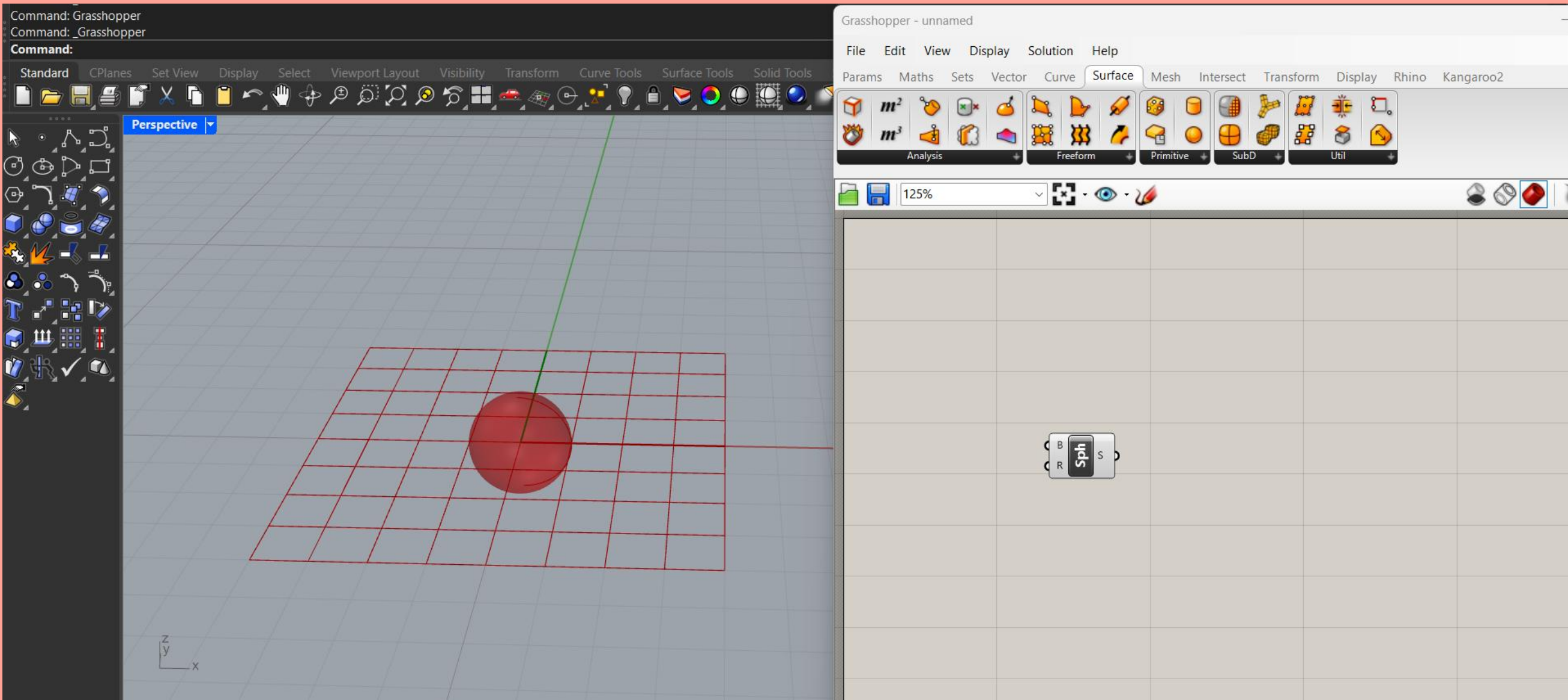


ABÓBADA ALVEOLADA

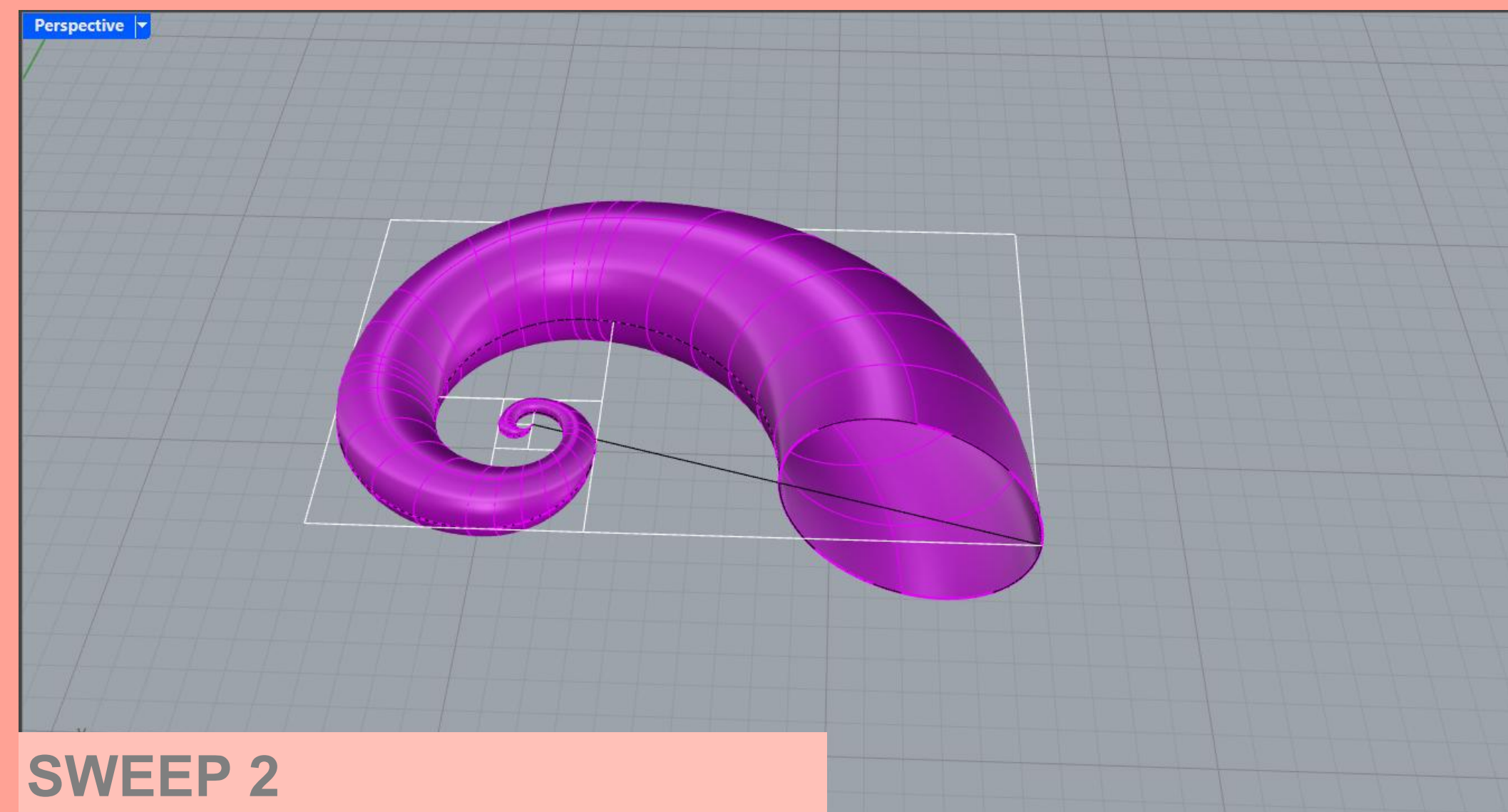
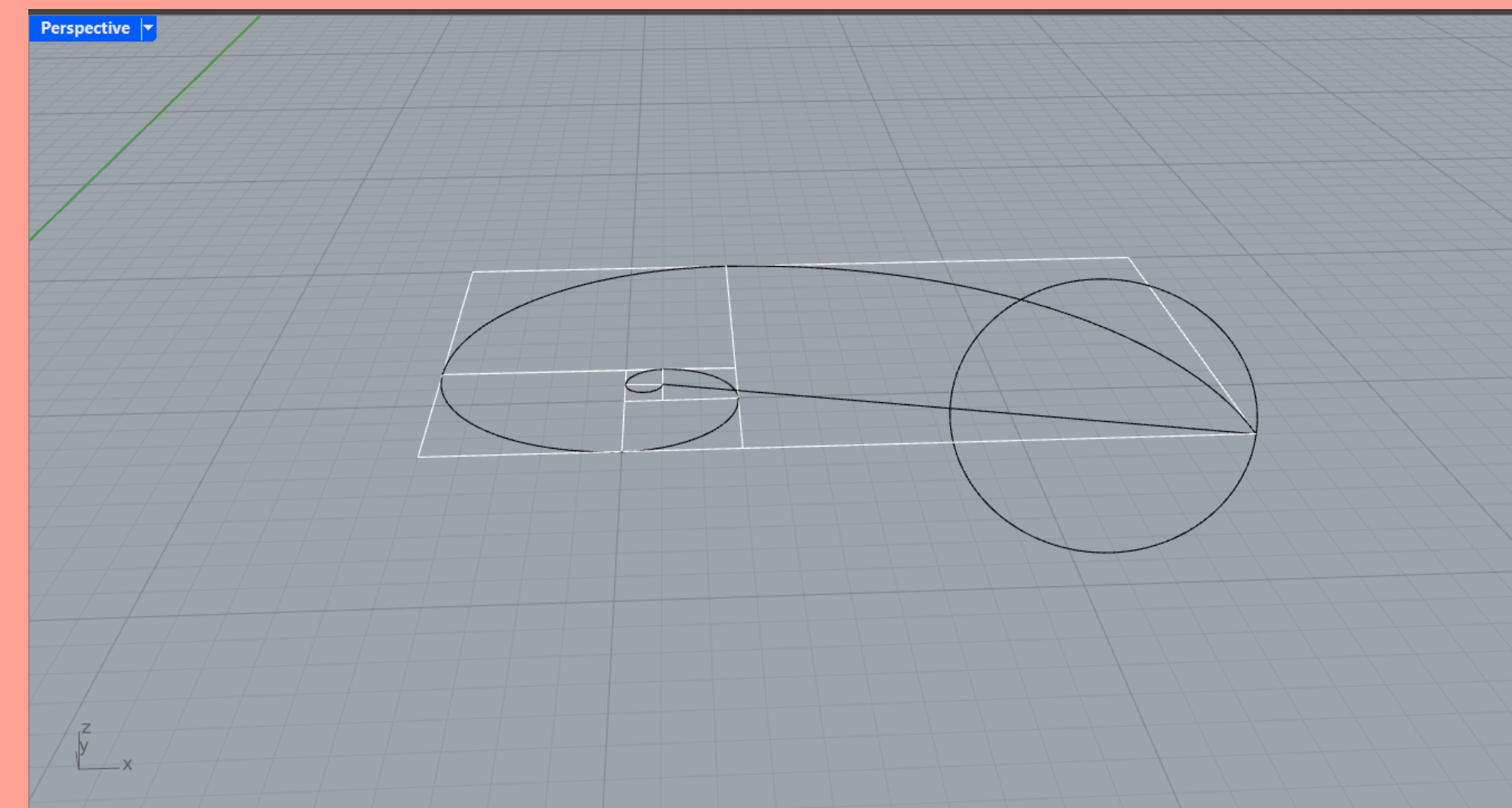
26-03-2026



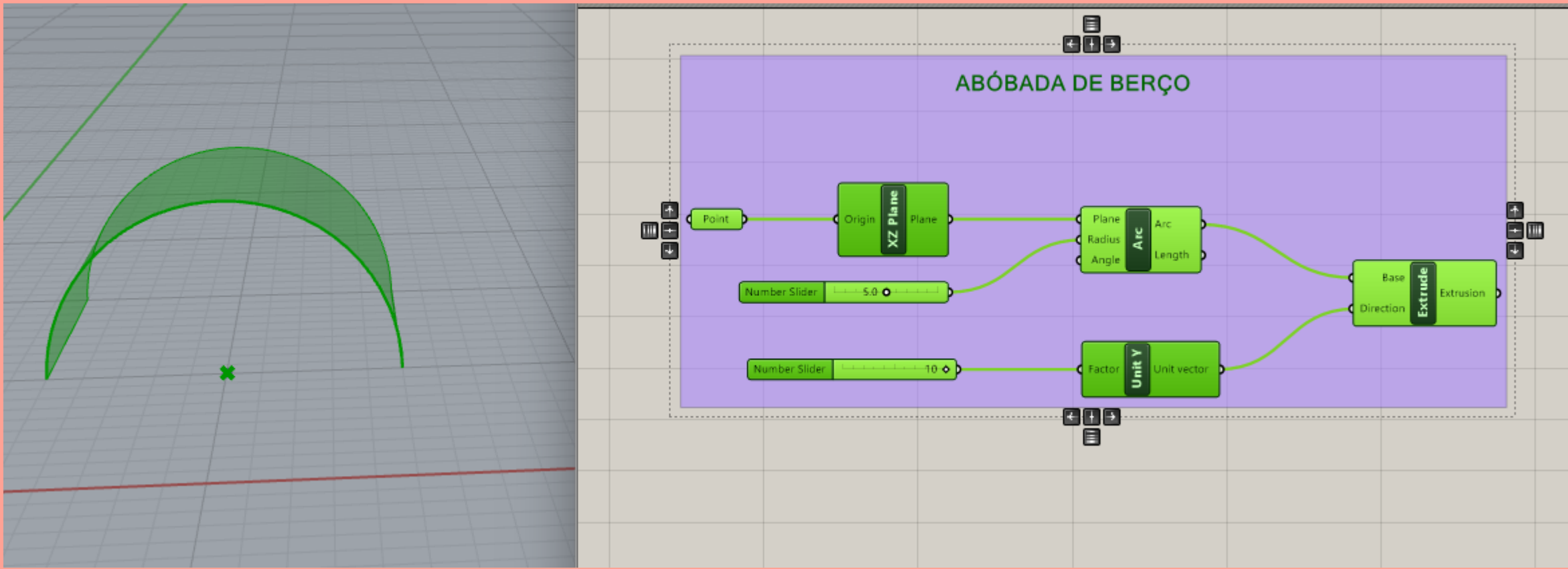
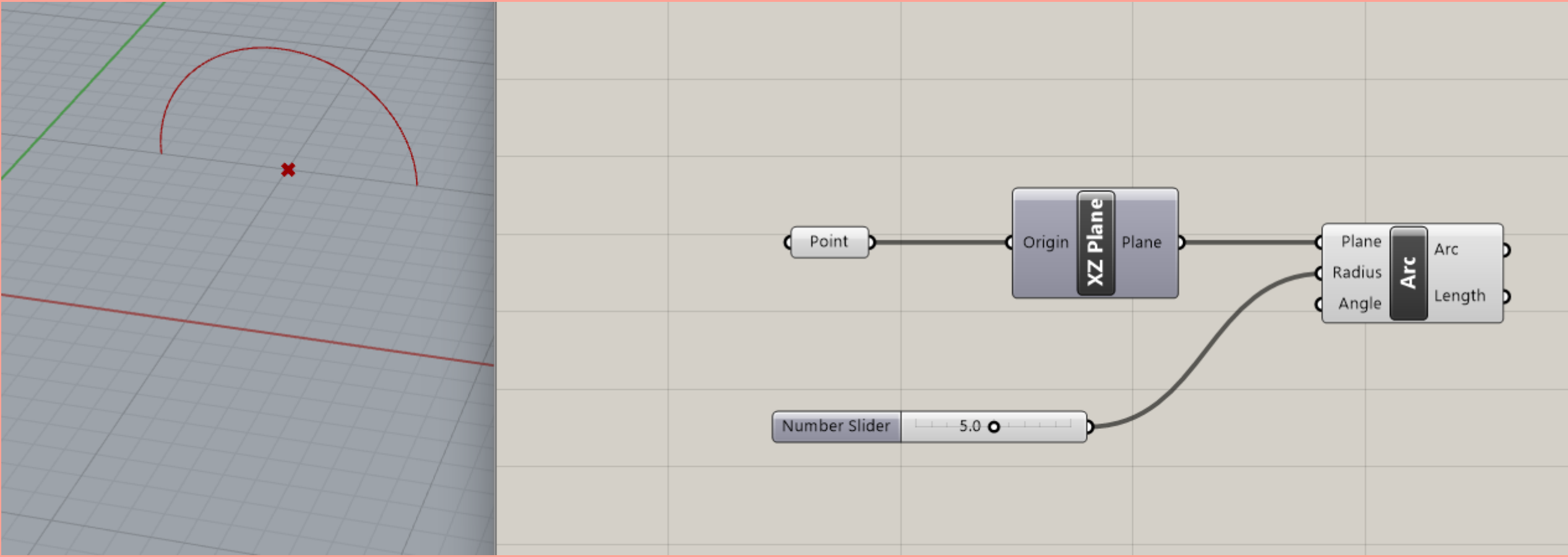
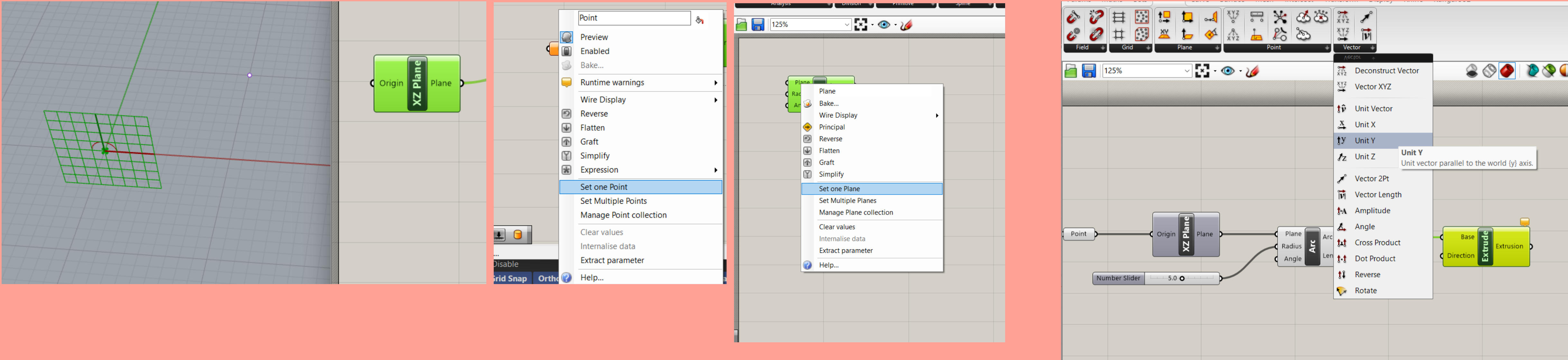
ABÓBADA DE BOLBO ALVEOLADA



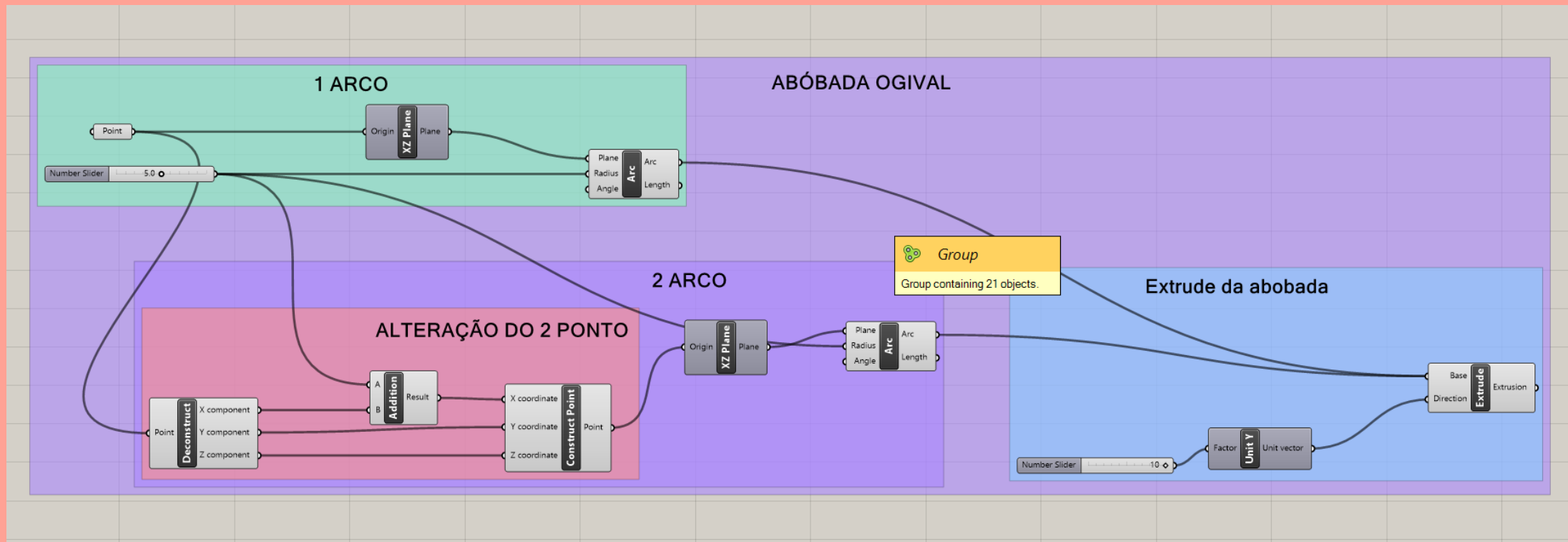
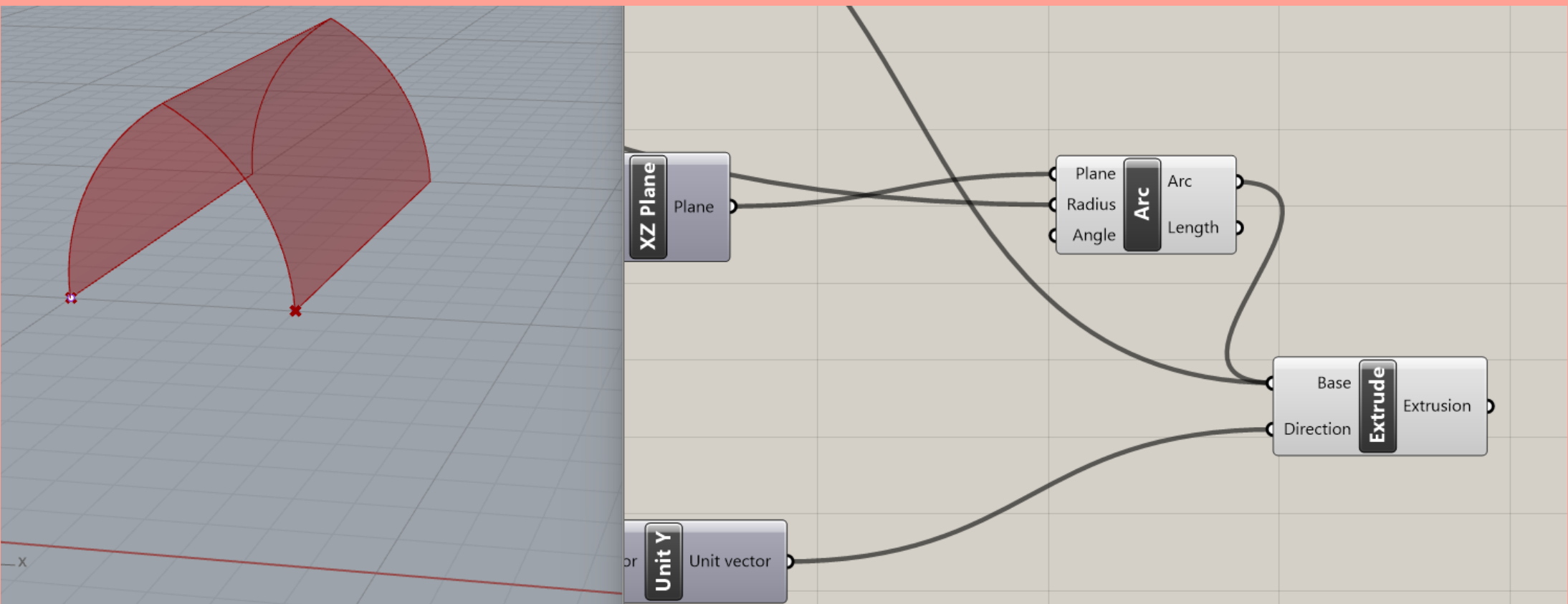
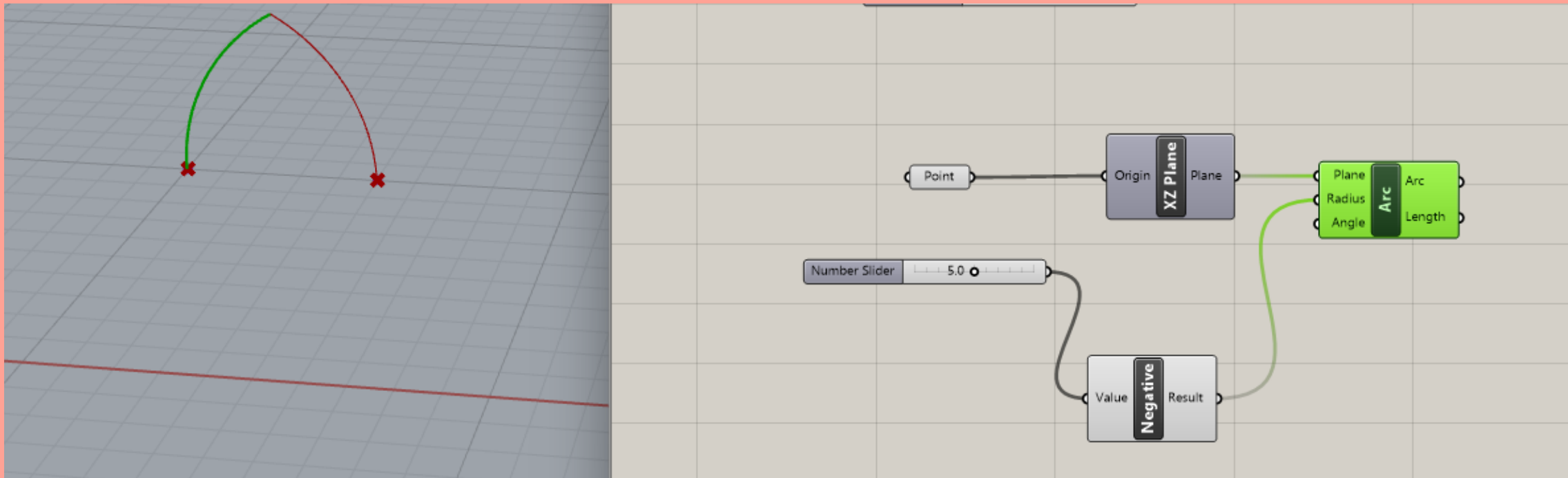
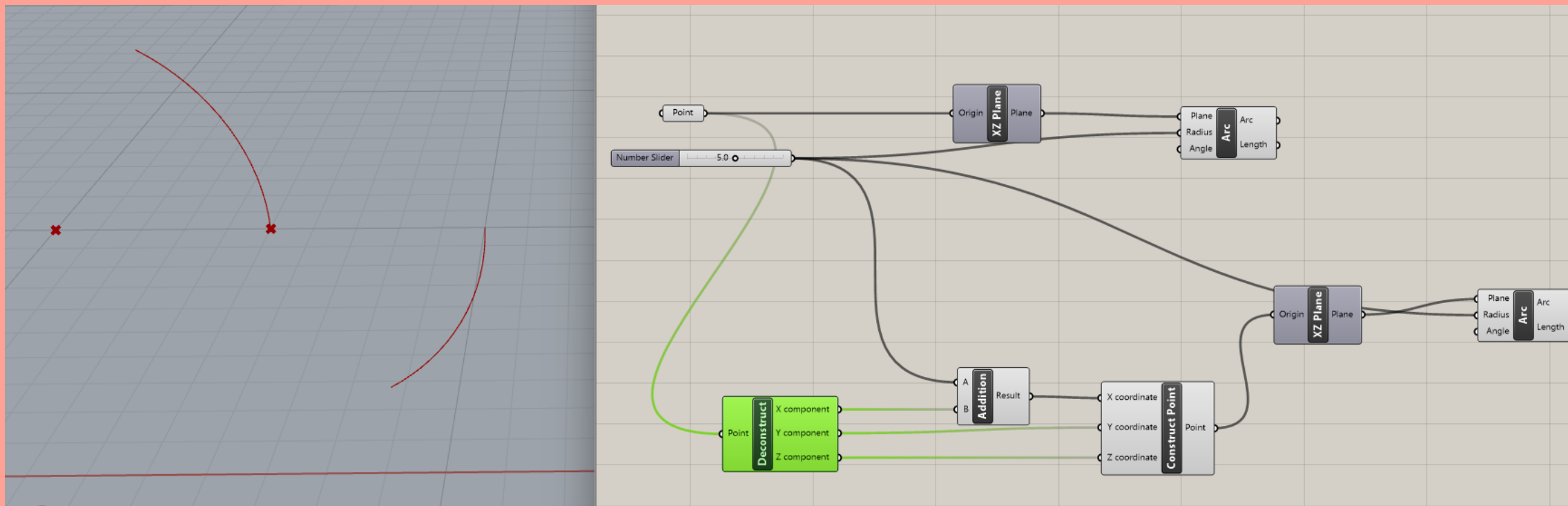
INTRODUÇÃO DE FIGURAS GEOMÉTRICAS



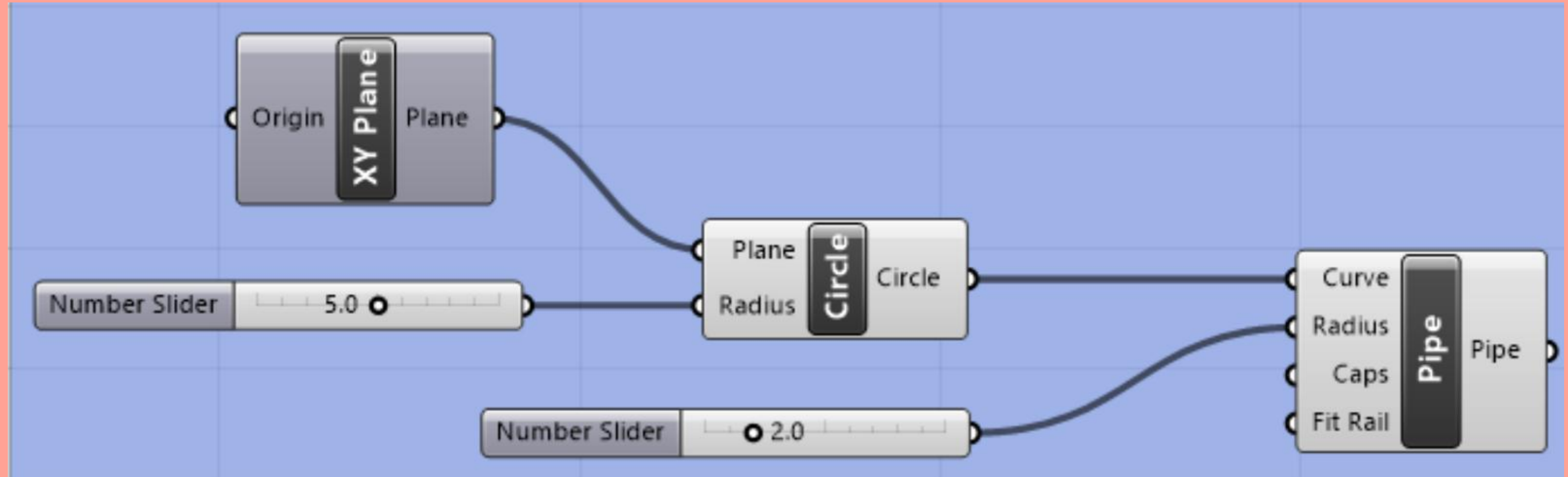
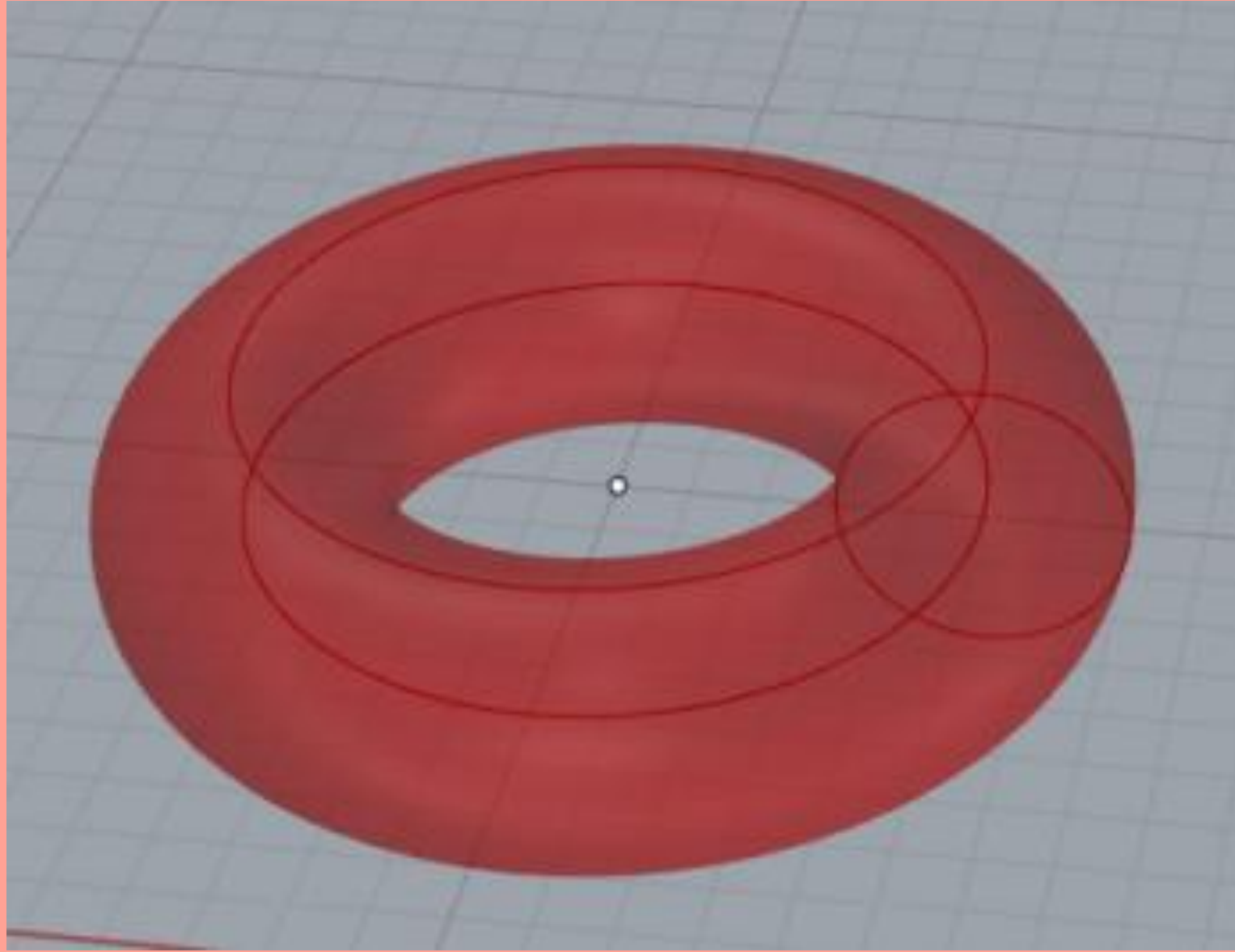
SPIRULA



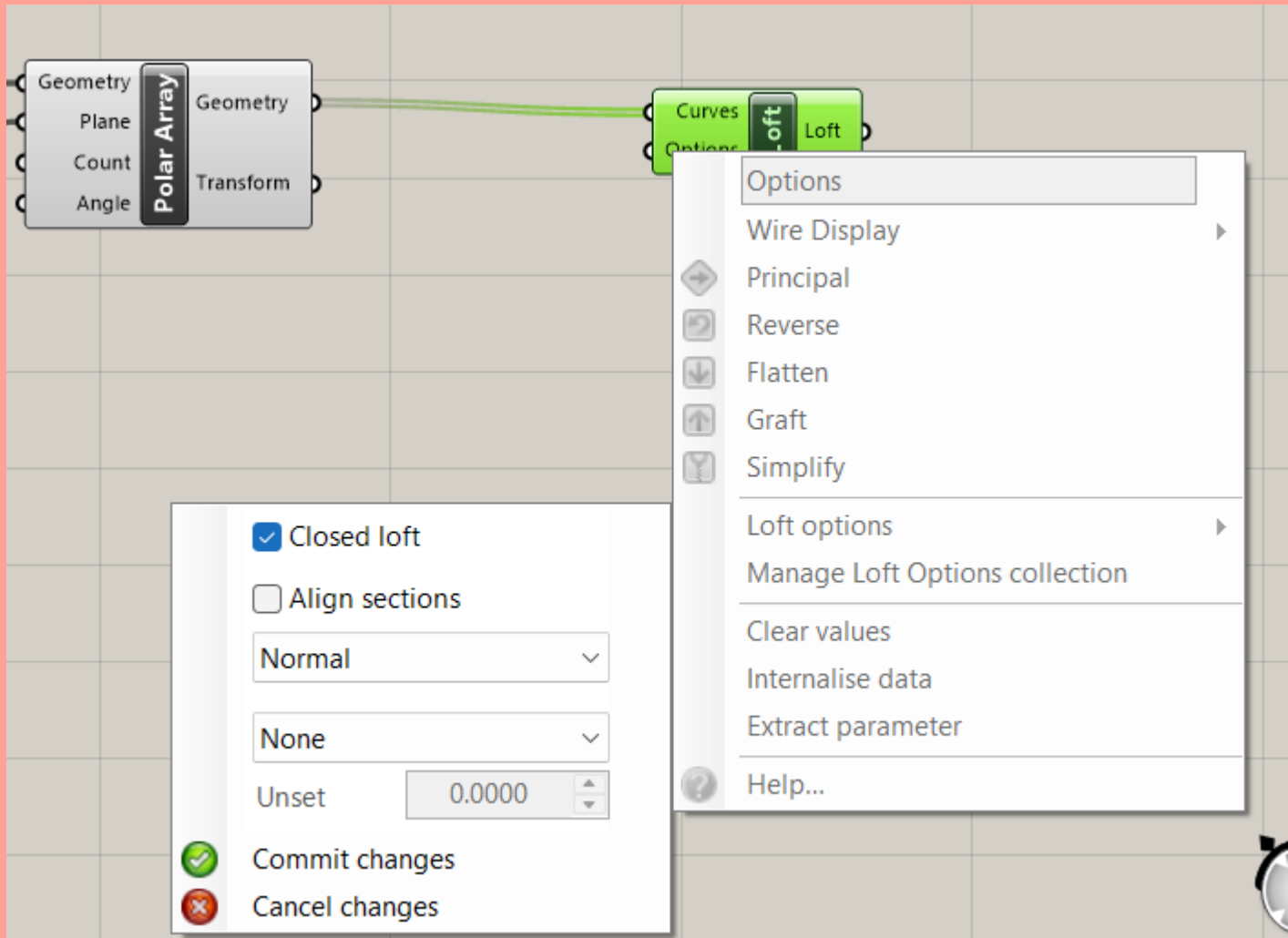
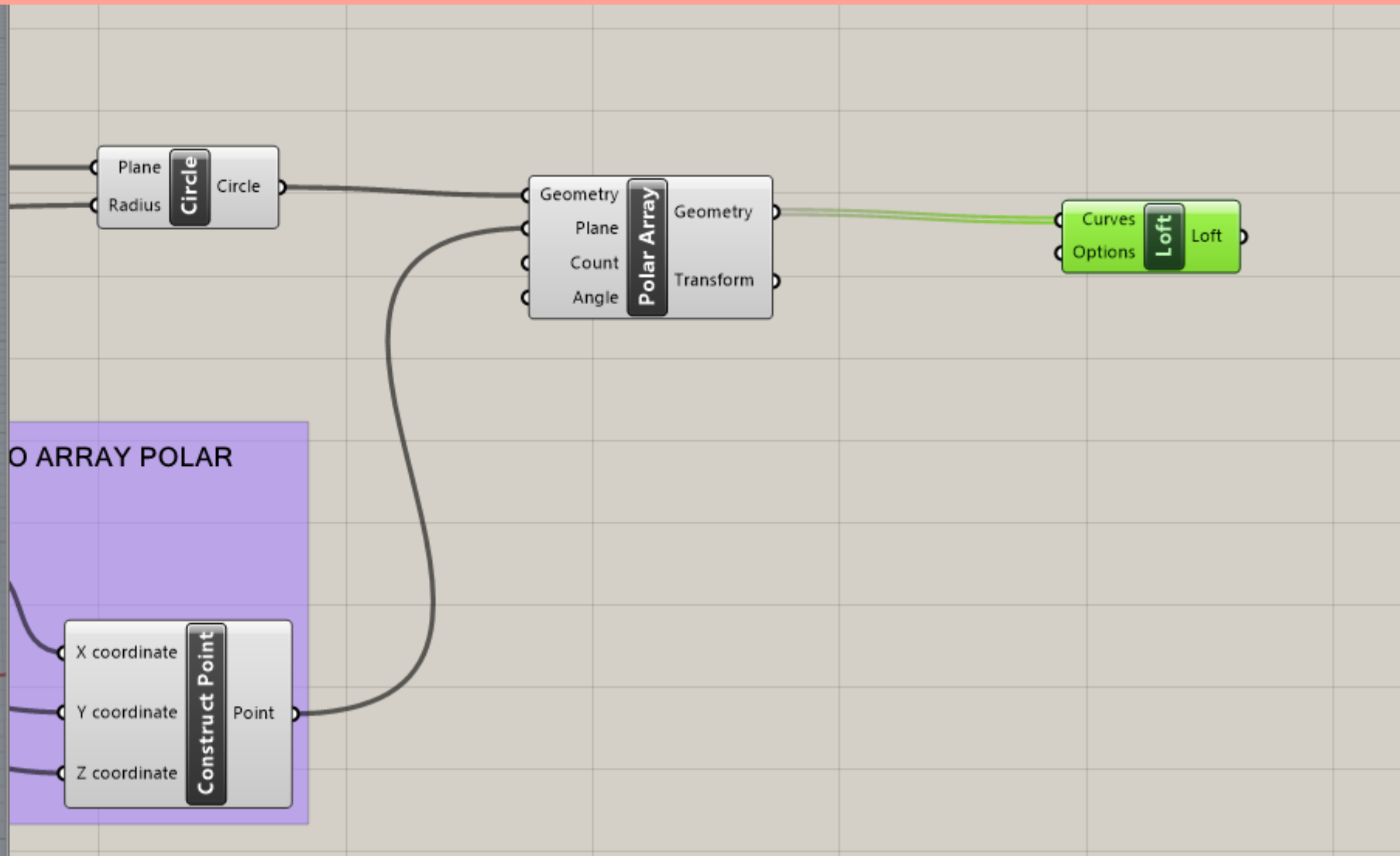
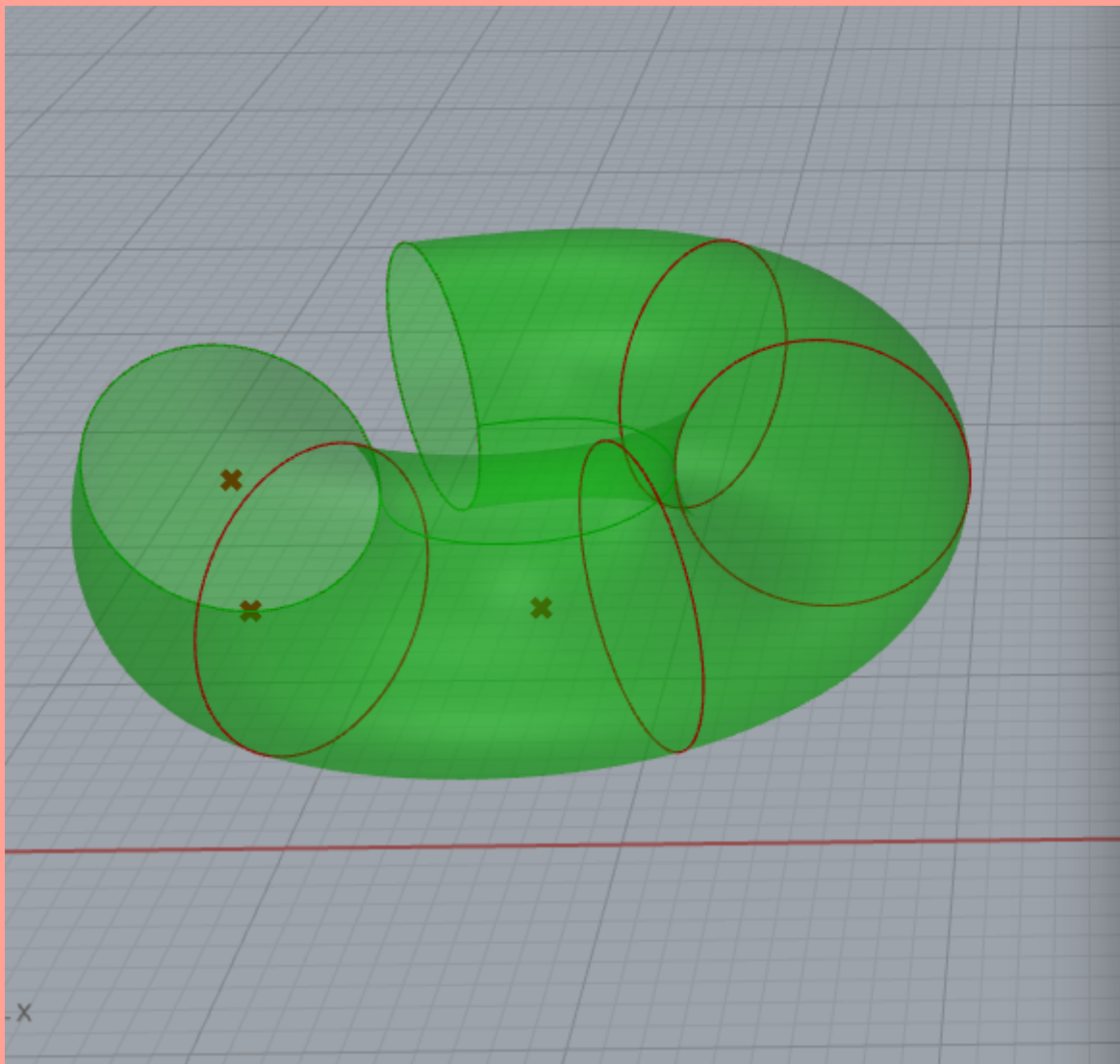
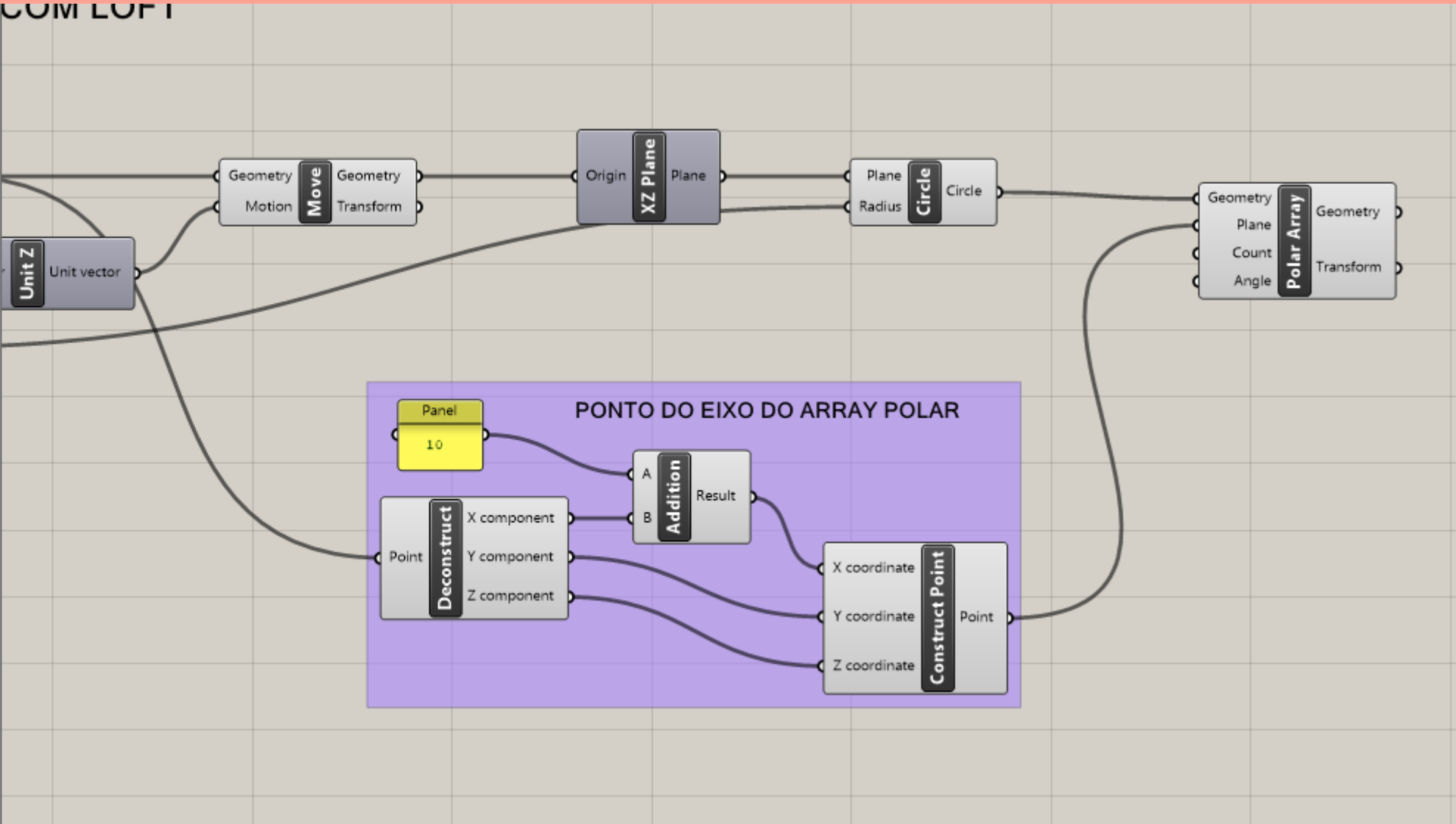
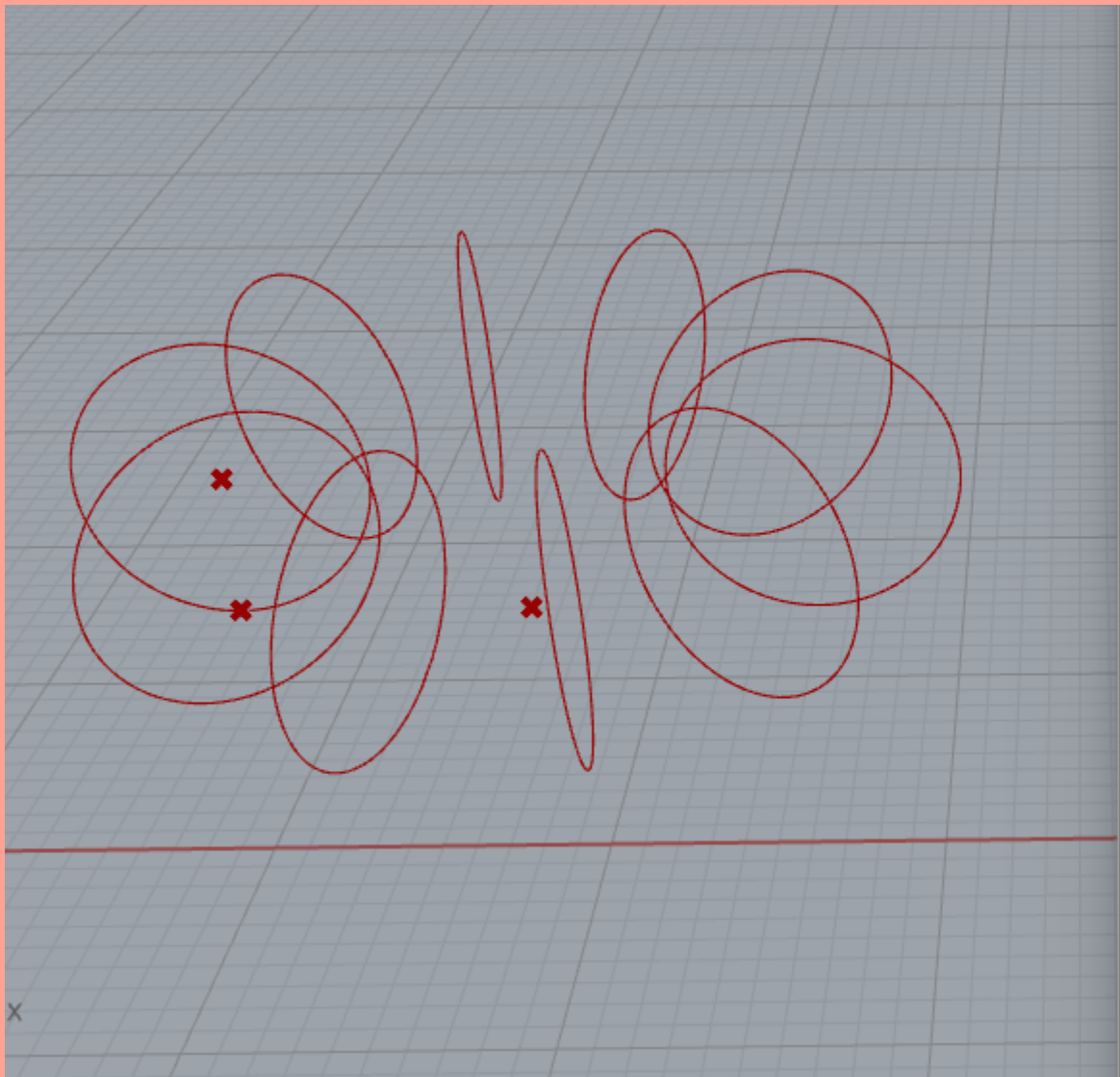
ABÓBADA DE BERÇO



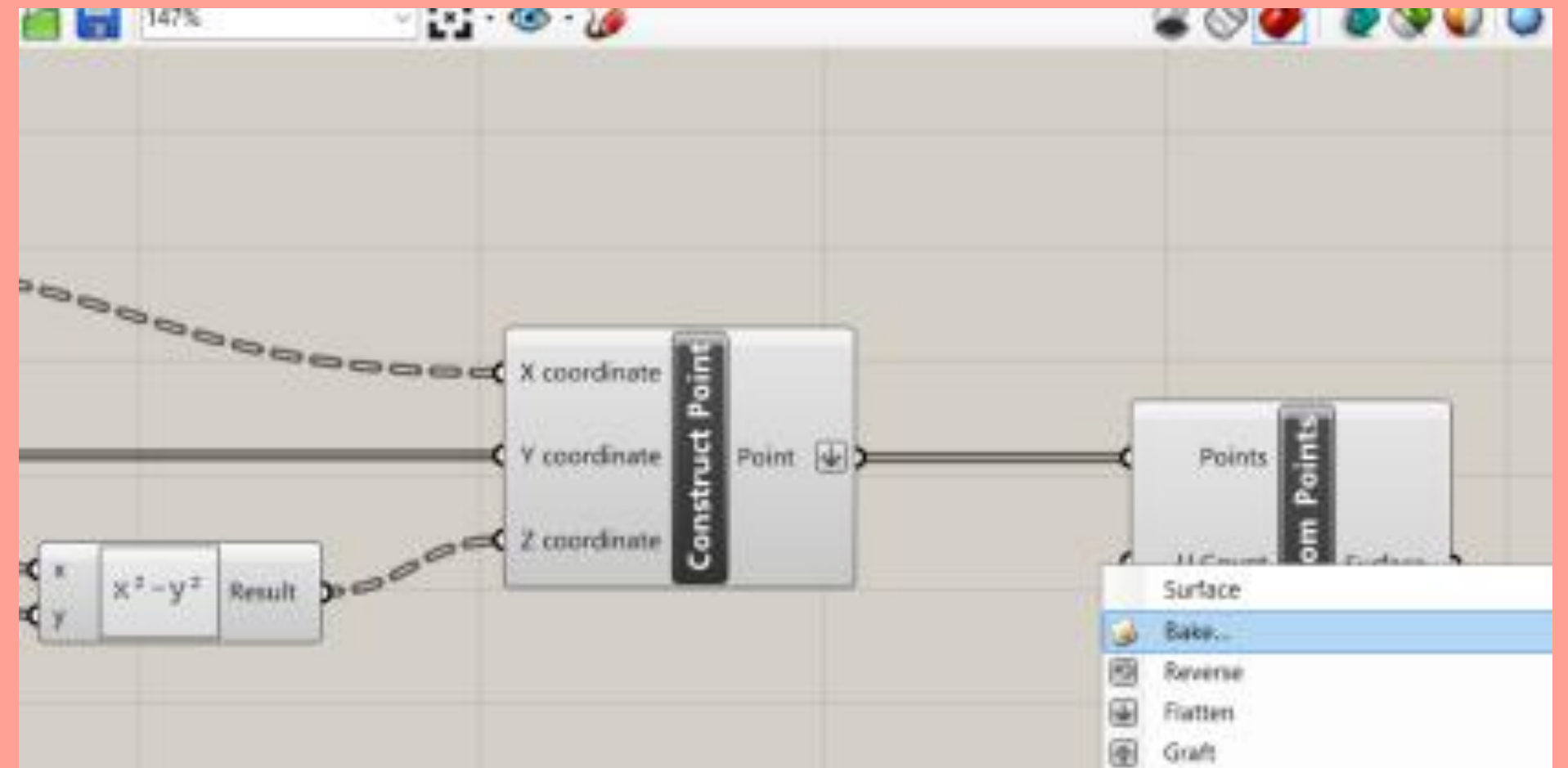
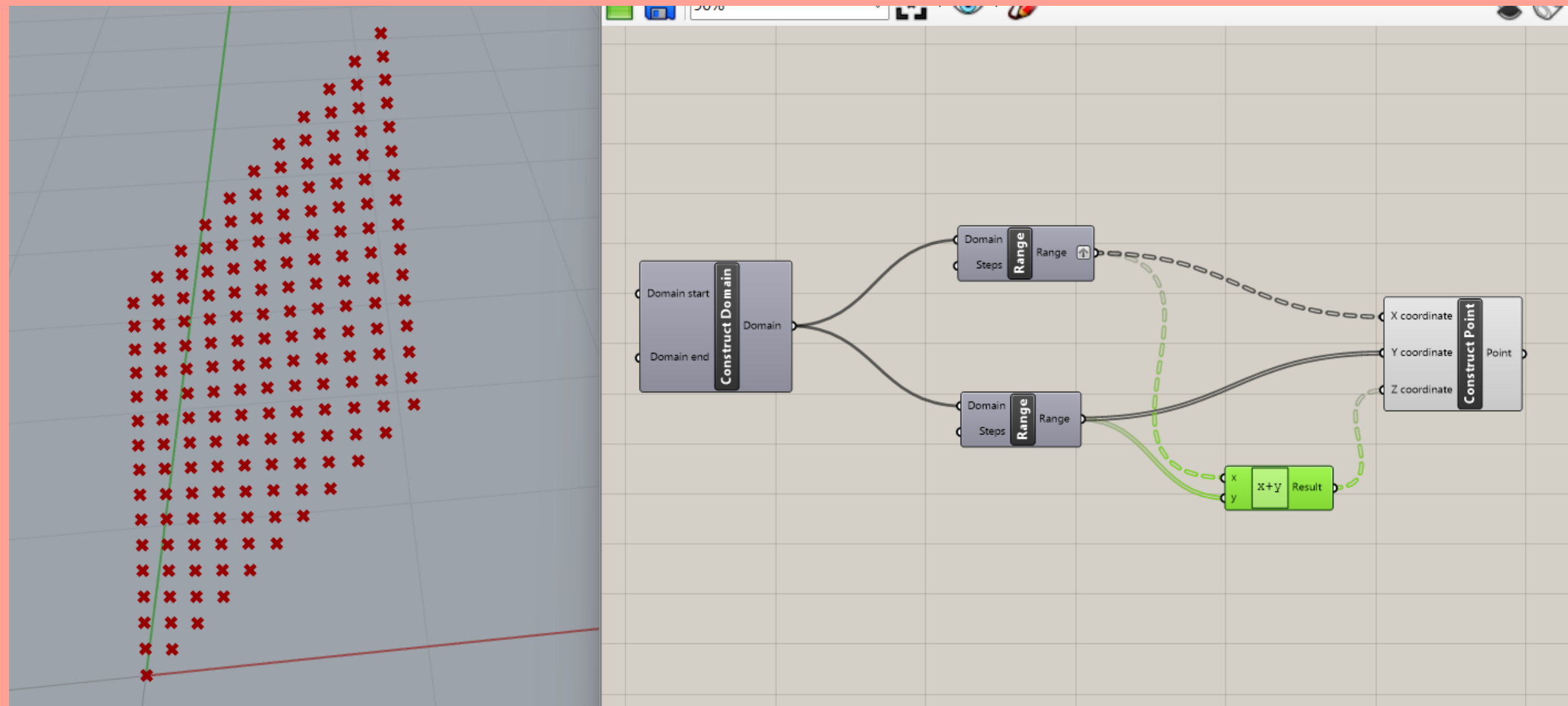
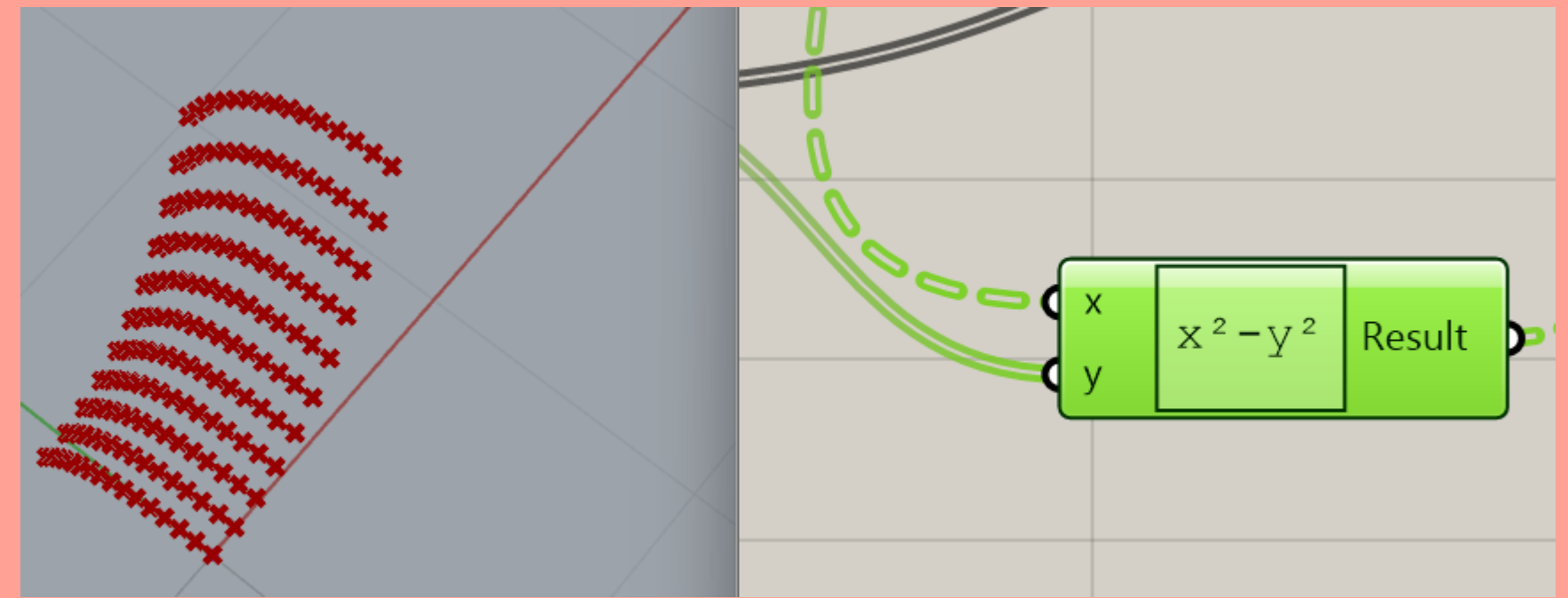
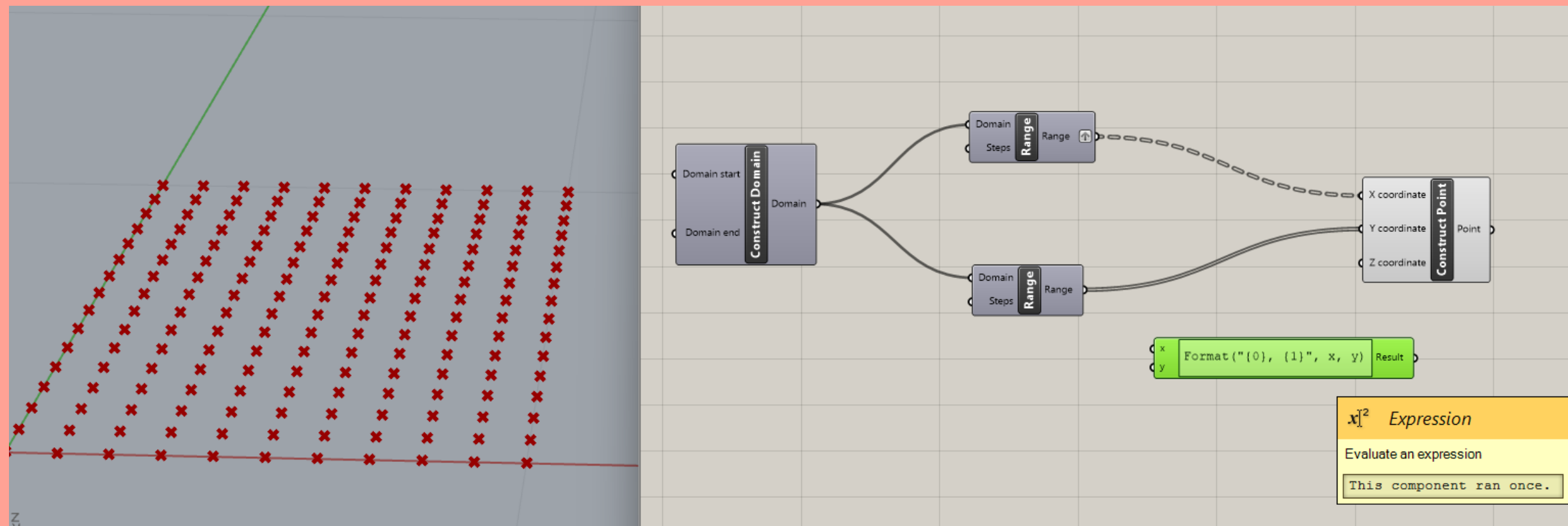
ABÓBADA OGIVAL



TORUS COM PIPE



TORUS COM LOFT



SUPERFÍCIE CURVA

