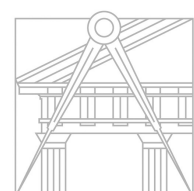


# Modelação e Visualização Tridimensional em Arquitectura

**U** LISBOA

UNIVERSIDADE  
DE LISBOA



FACULDADE DE ARQUITETURA  
UNIVERSIDADE DE LISBOA

Mestrado Integrado em Arquitectura  
Ano Lectivo 2022-2023 2º Semestre  
Docente - Nuno Alão 3º Ano

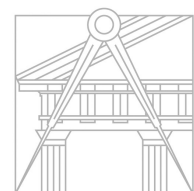
20201291



DANIELA SILVA

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UNIVERSIDADE  
DE LISBOA



FACULDADE DE ARQUITETURA  
UNIVERSIDADE DE LISBOA

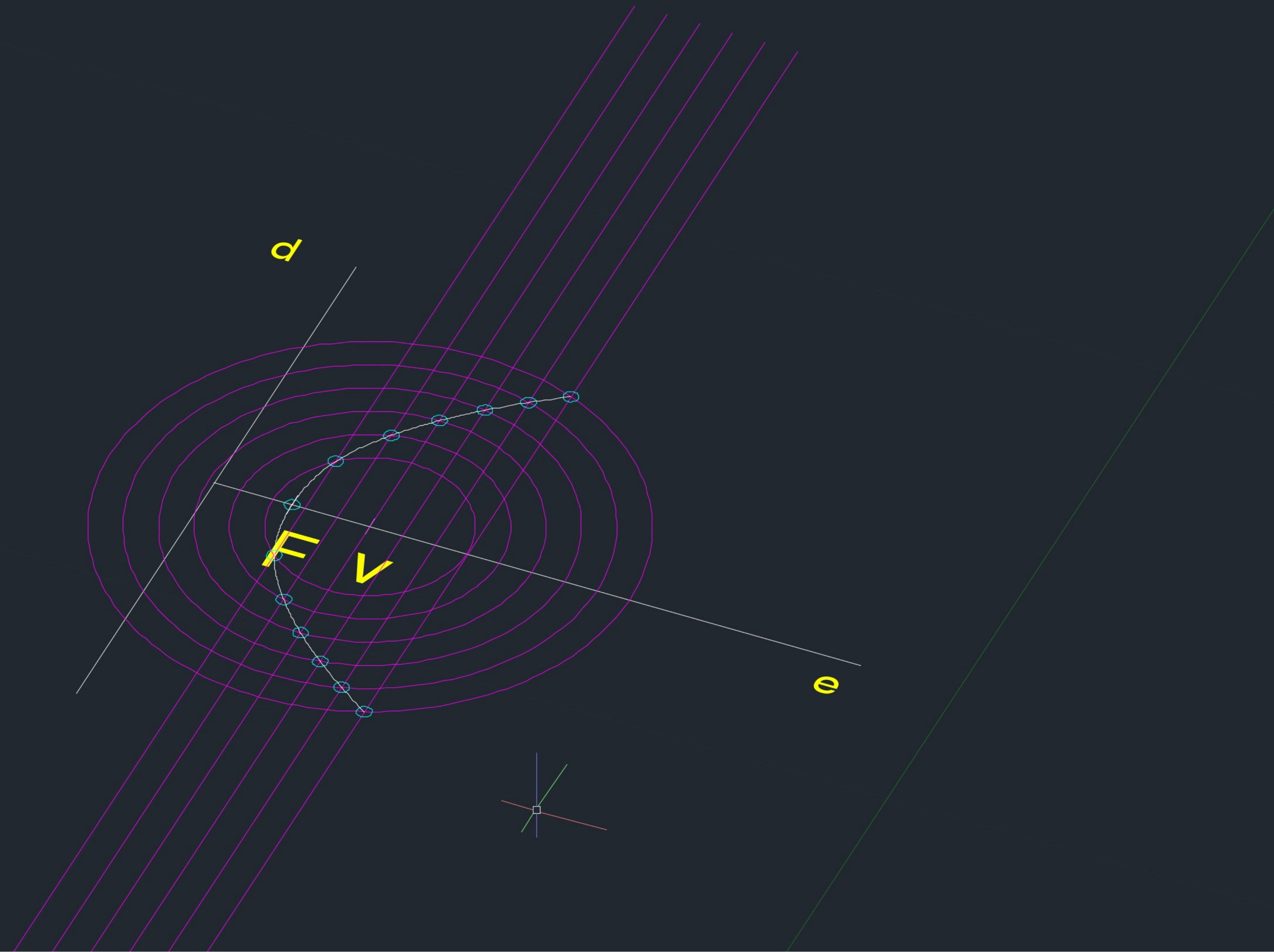
**MVTA**

Mestrado Integrado em Arquitectura  
Ano Lectivo 2022-2023 2º Semestre  
Docente - Nuno Alão 3º Ano



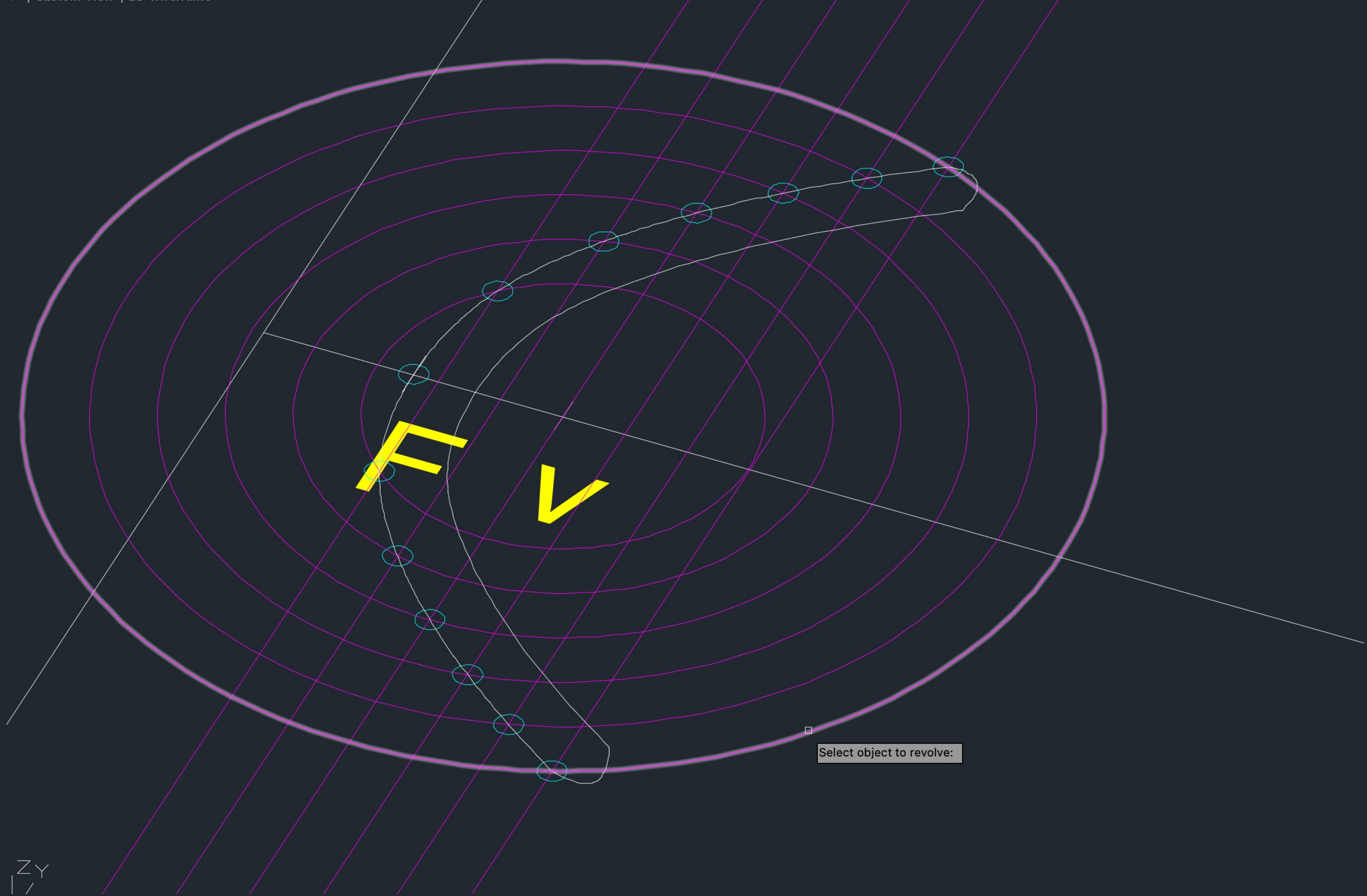
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- Exerc. 2.1–Cone - Secções
- Exerc. 2.2 –Superfícies de Revolução
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- Exerc. 4.1 – Parabolóide Hiperbólico
- Exerc. 4.2 – Superfícies – LOFT
- Exerc. 5 – Guggenheim Museum , NY



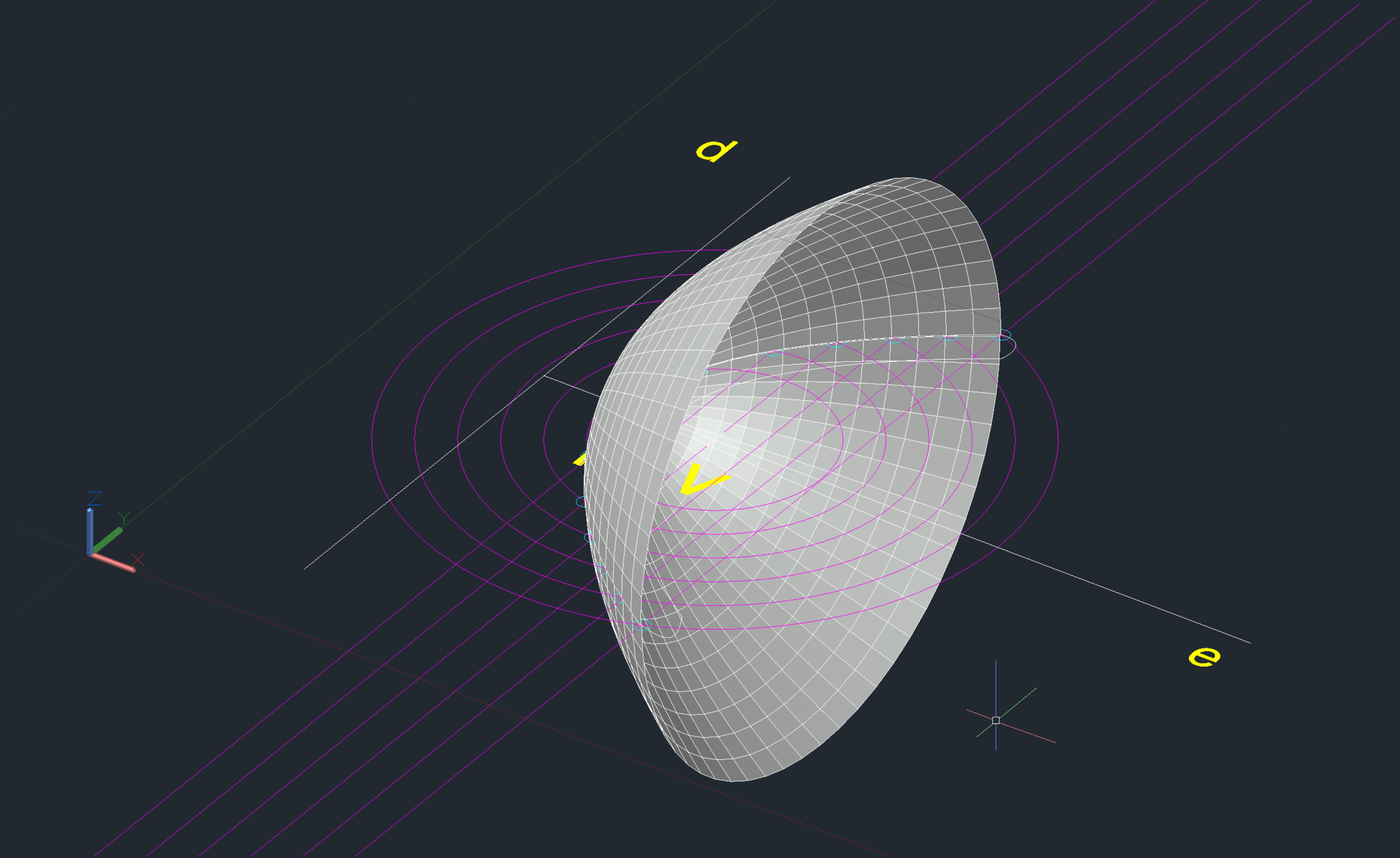
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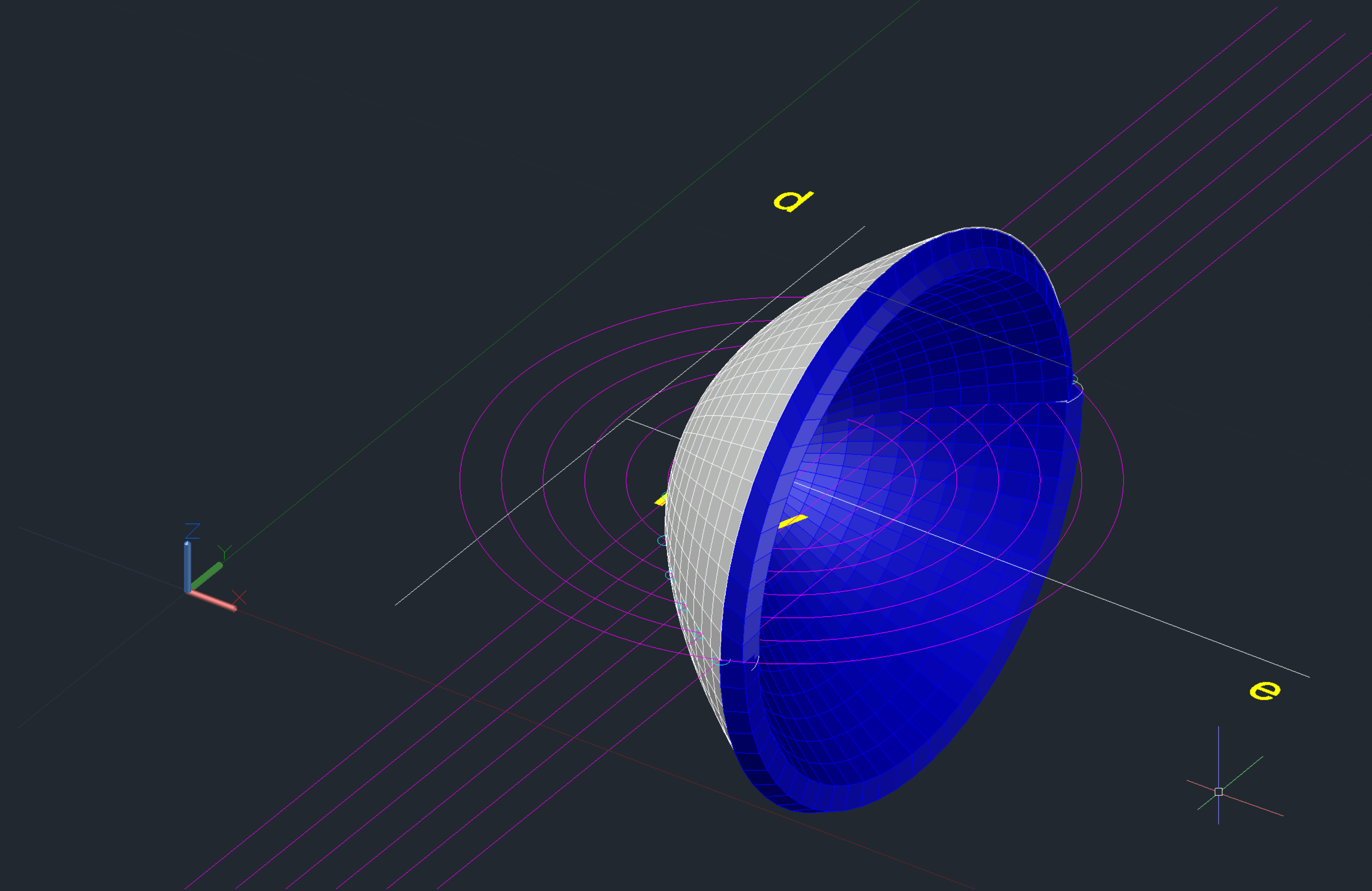


# Exerc. 1.1 – Superfície Parabólica



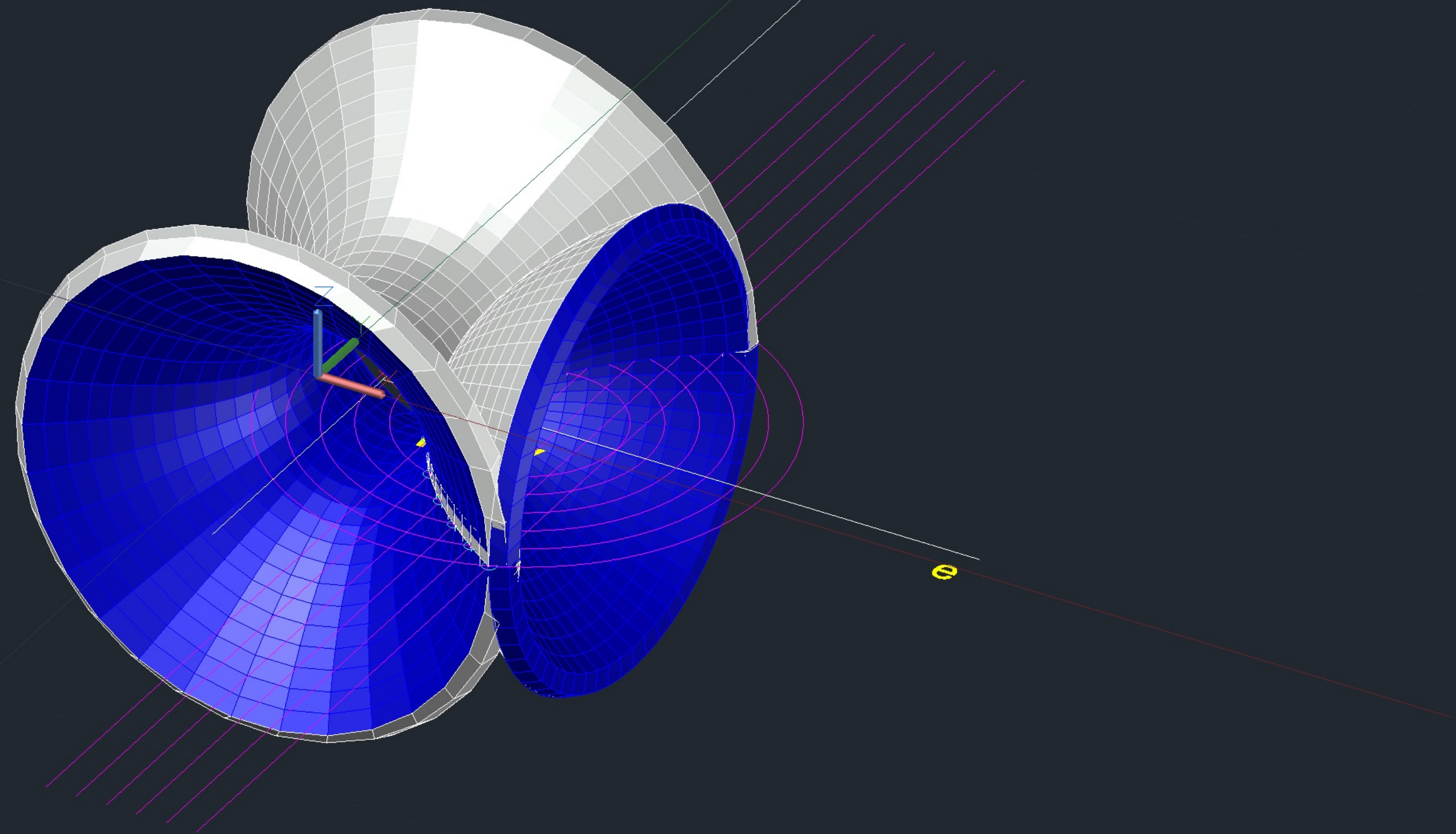


# Exerc. 1.1 – Superfície Parabólica



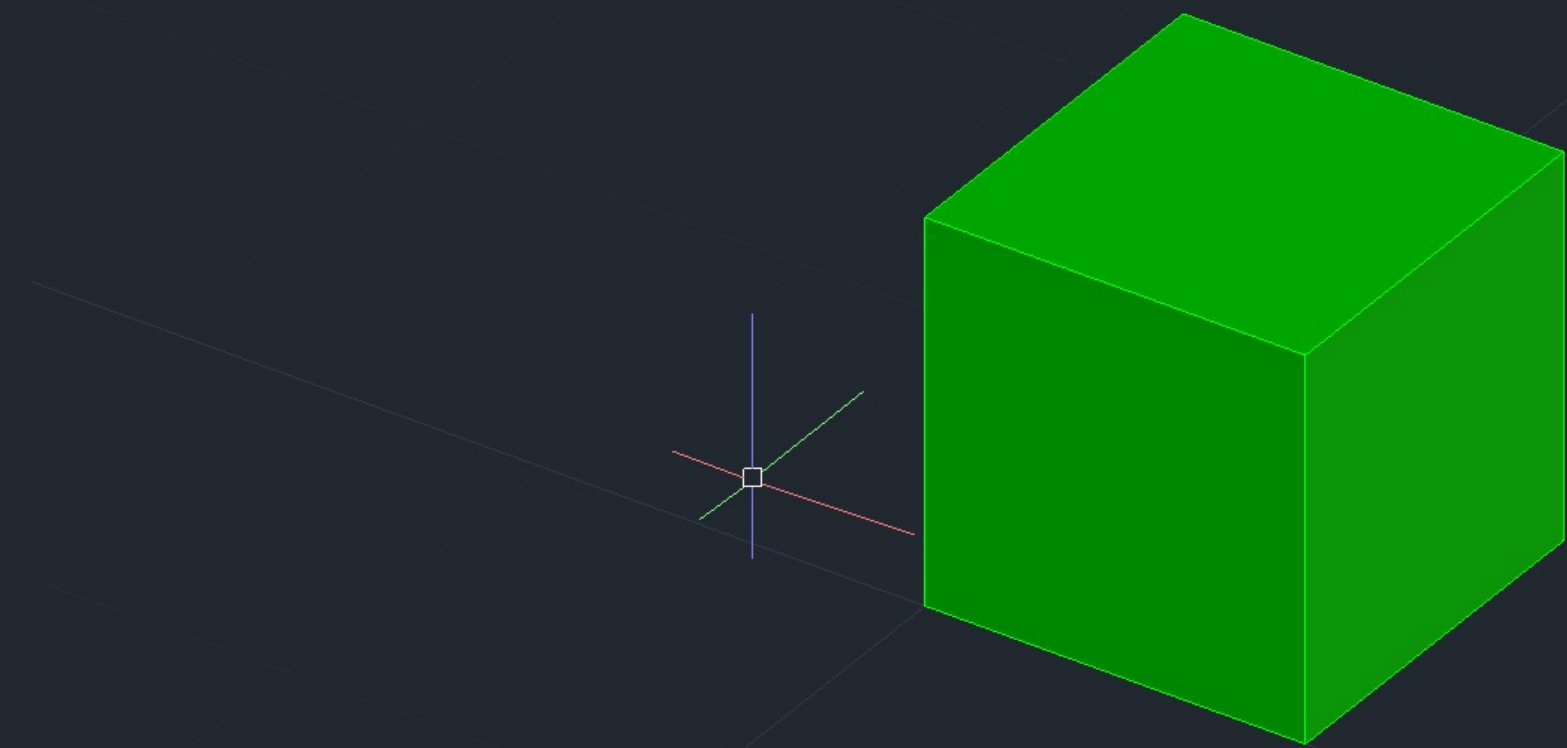
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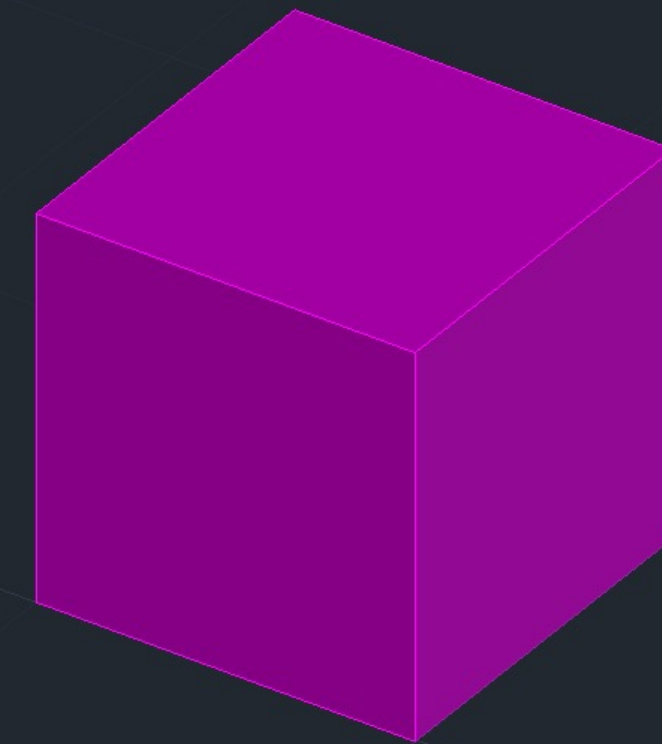


# Exerc. 1.1 – Superfície Parabólica





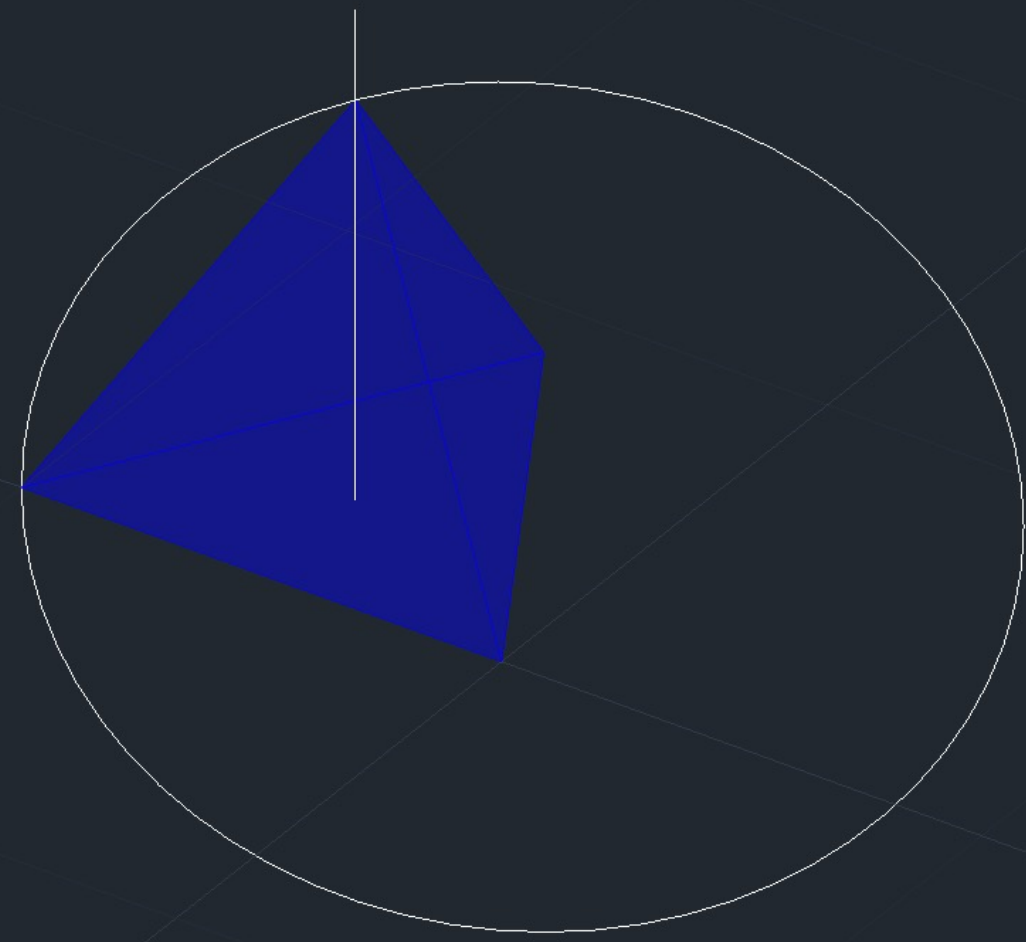
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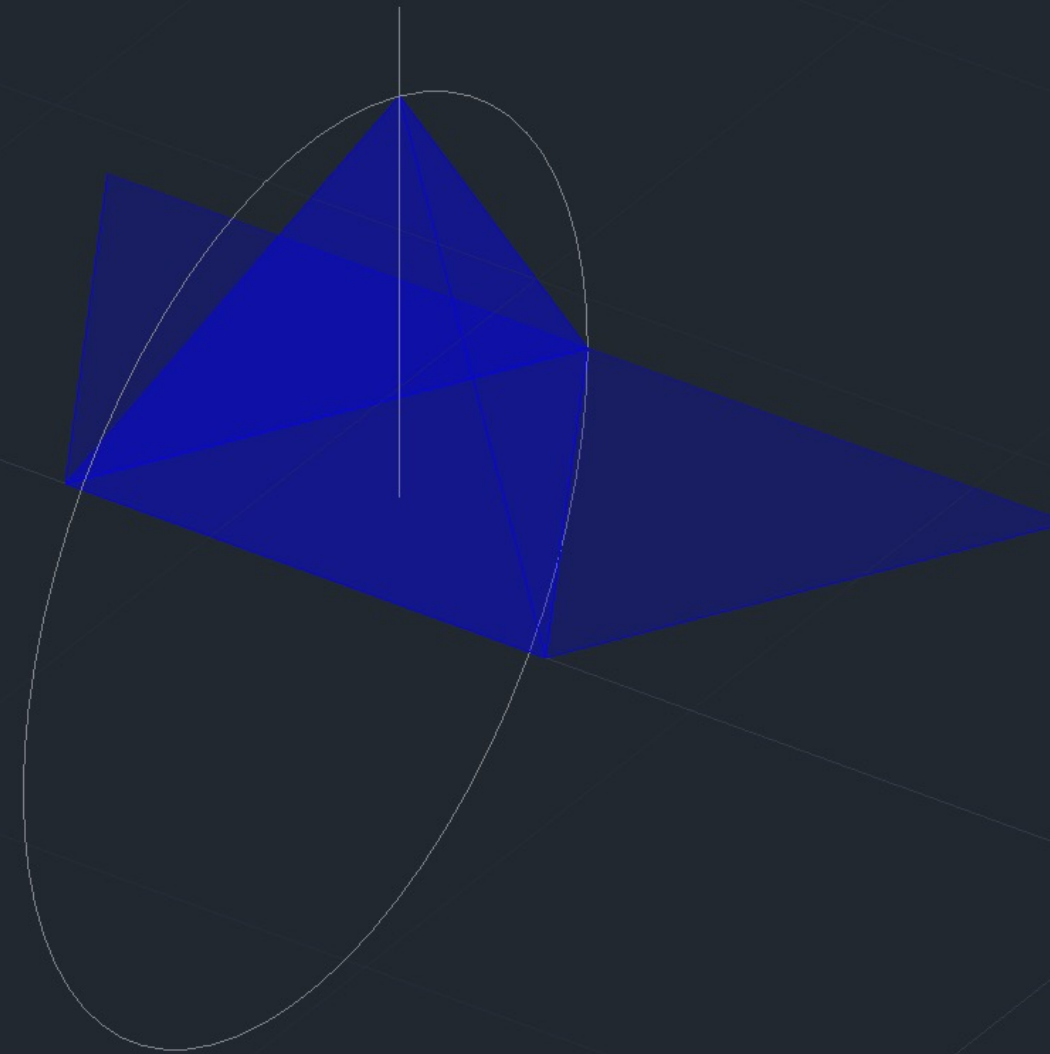
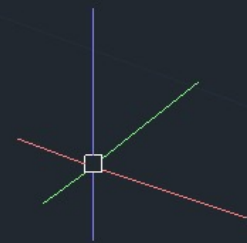
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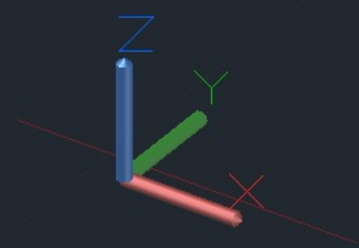
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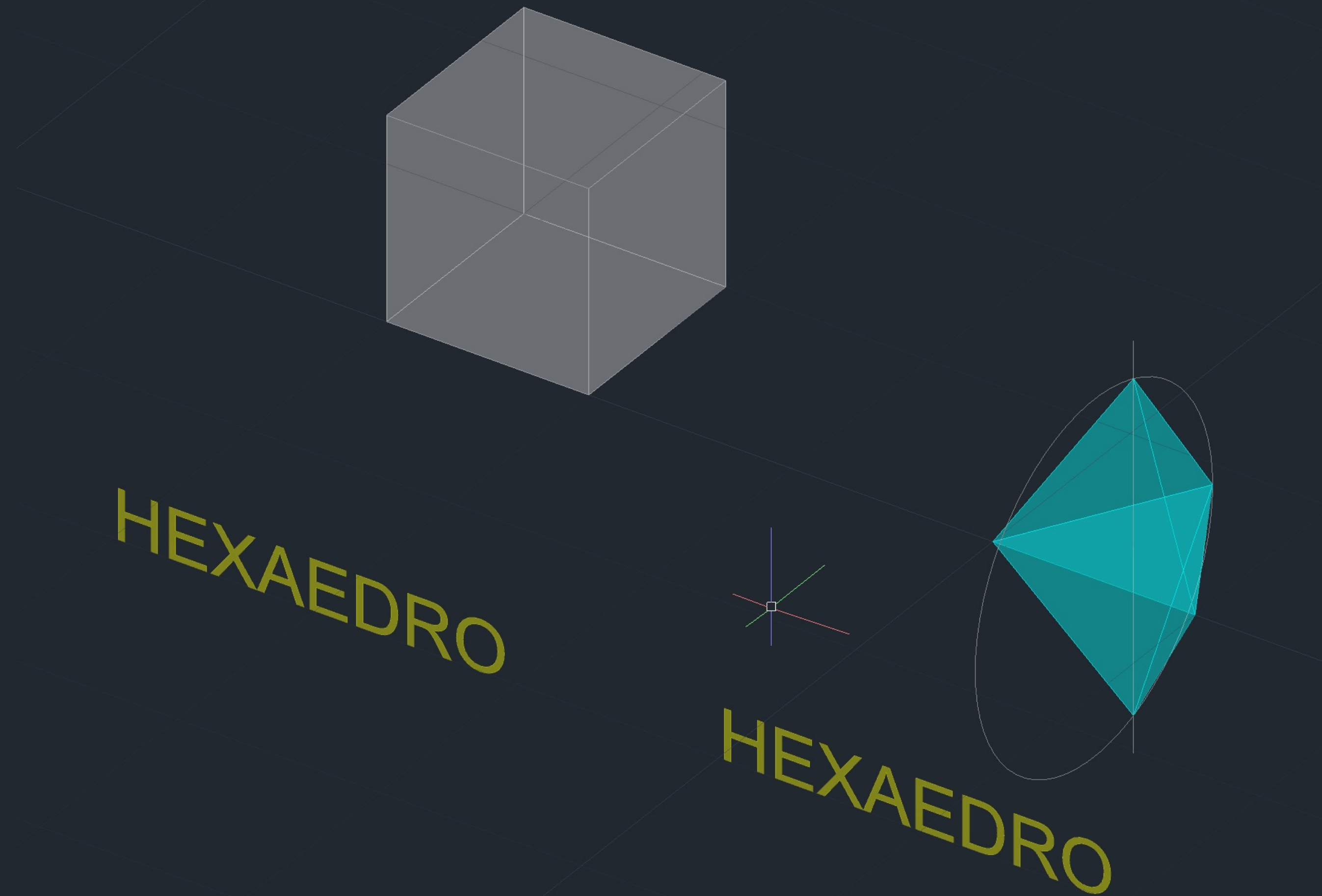
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TETRAEDRO

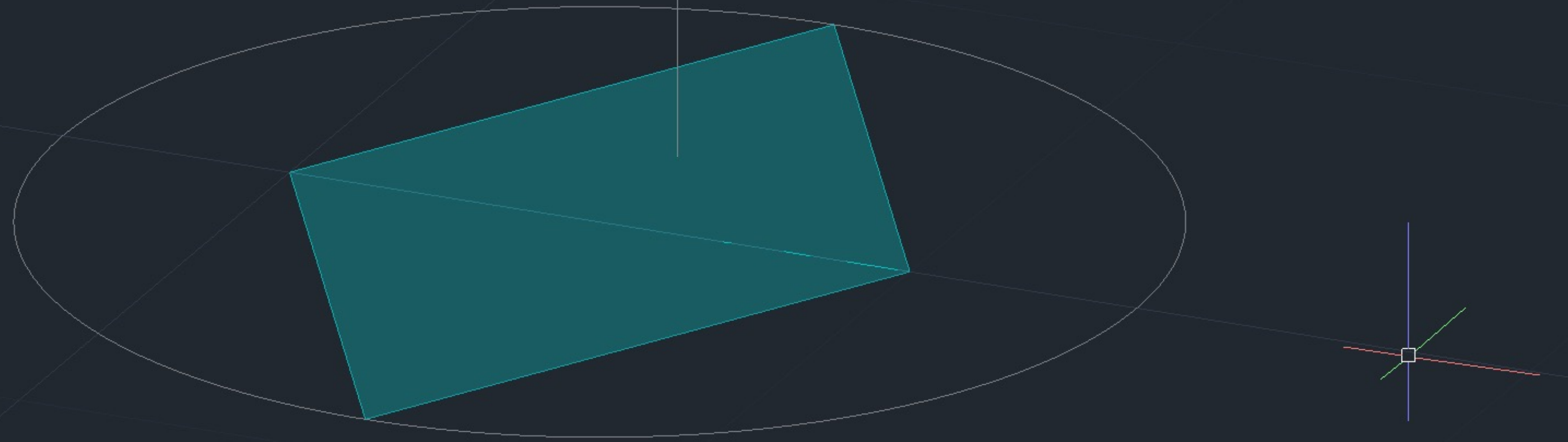


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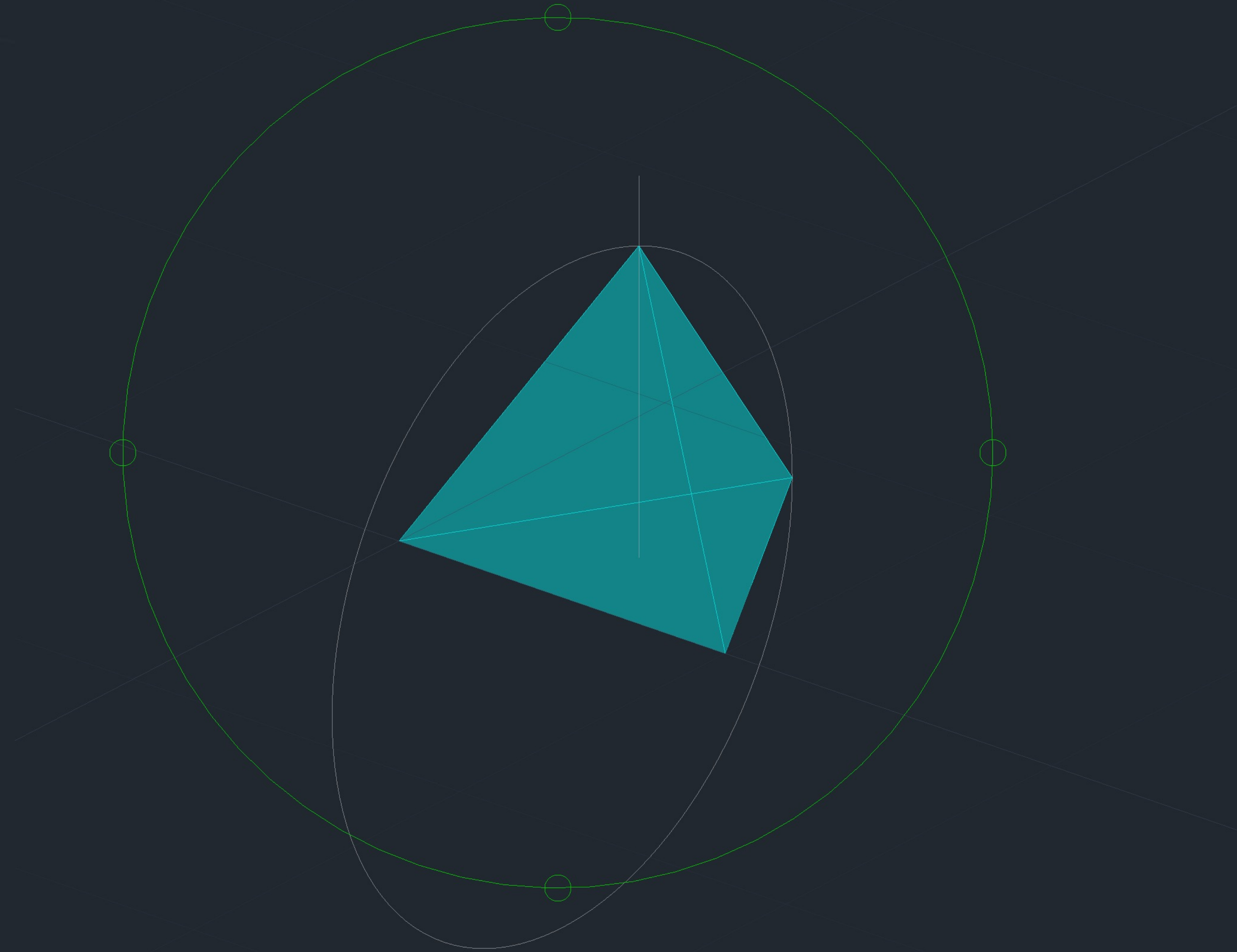


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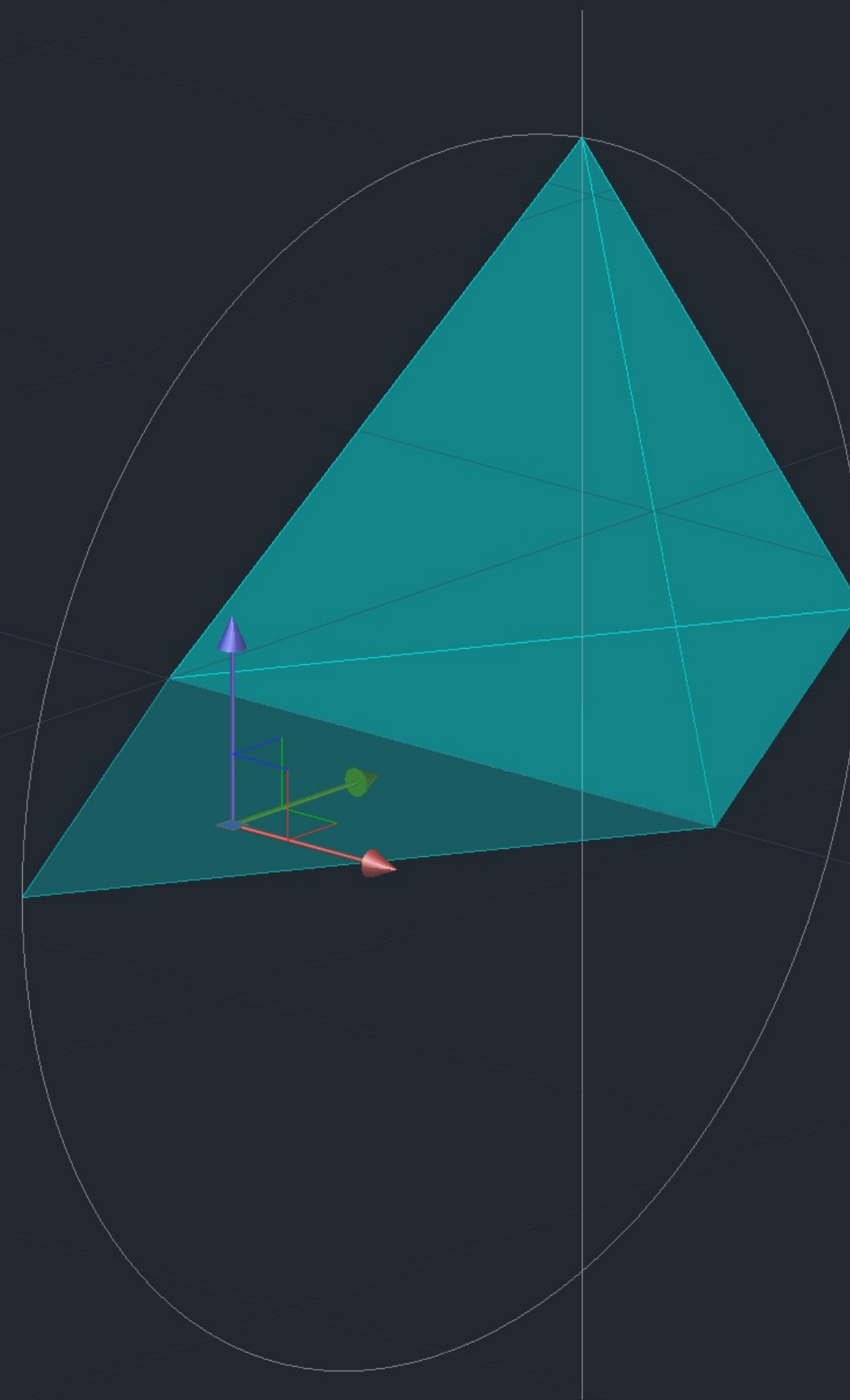




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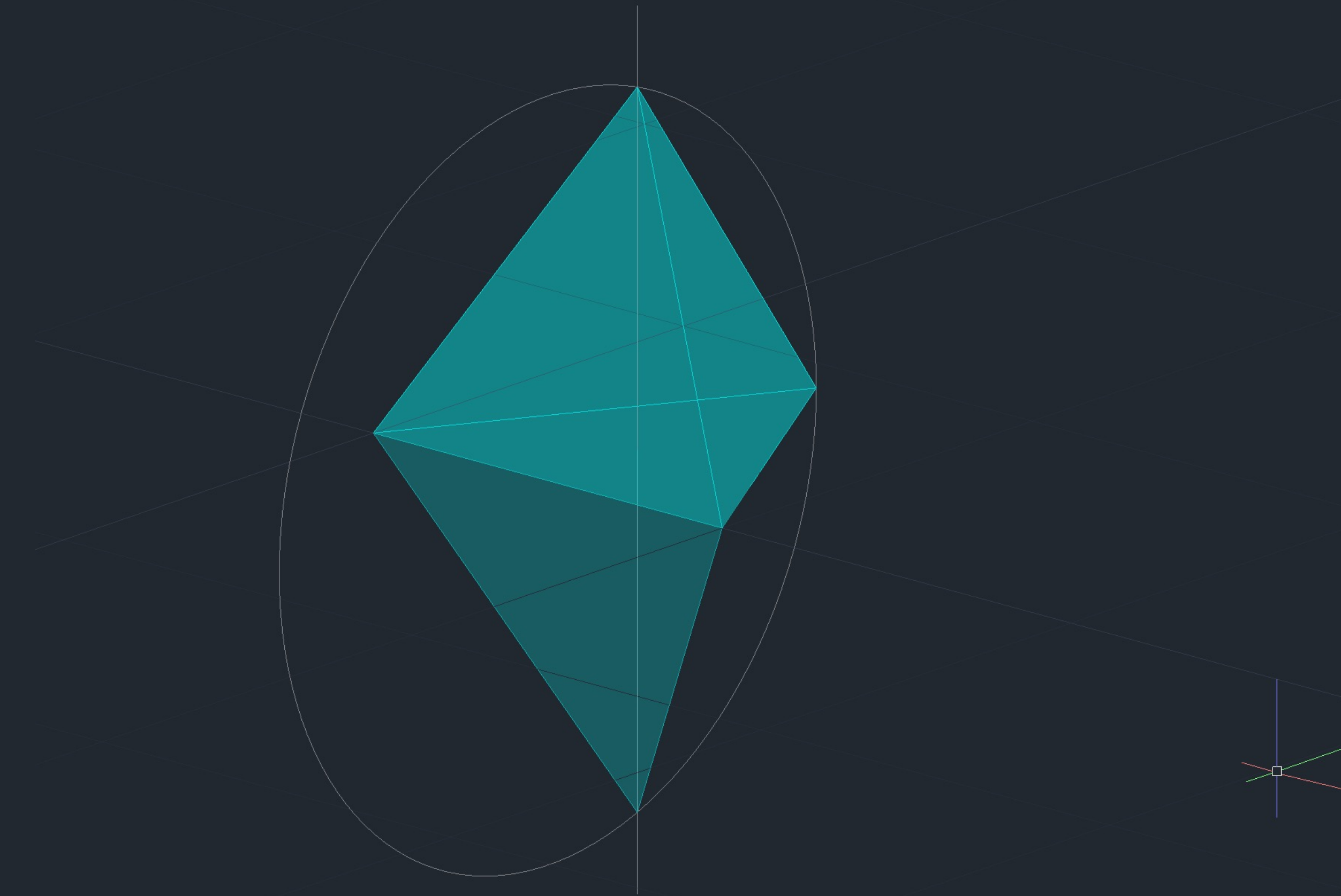


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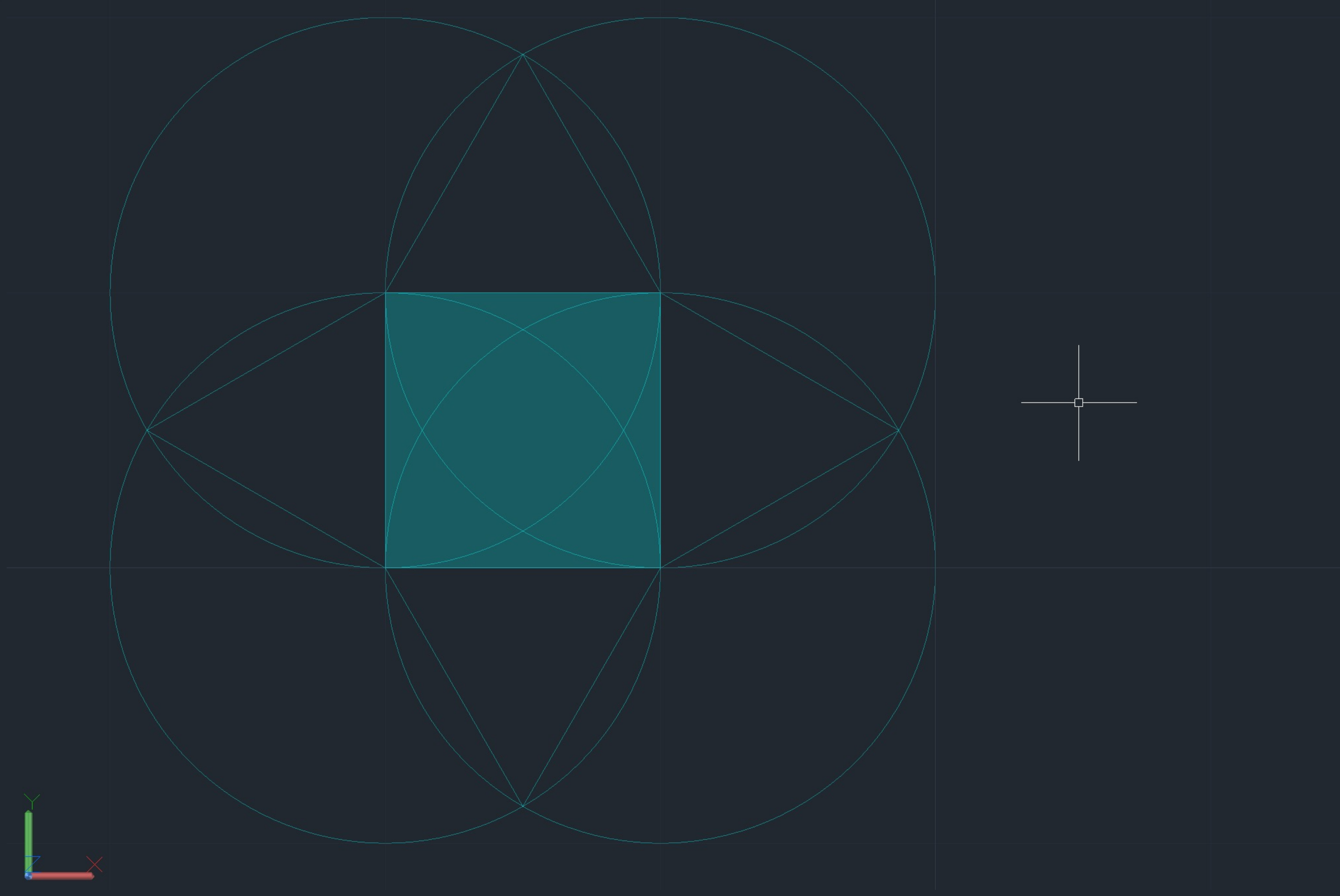


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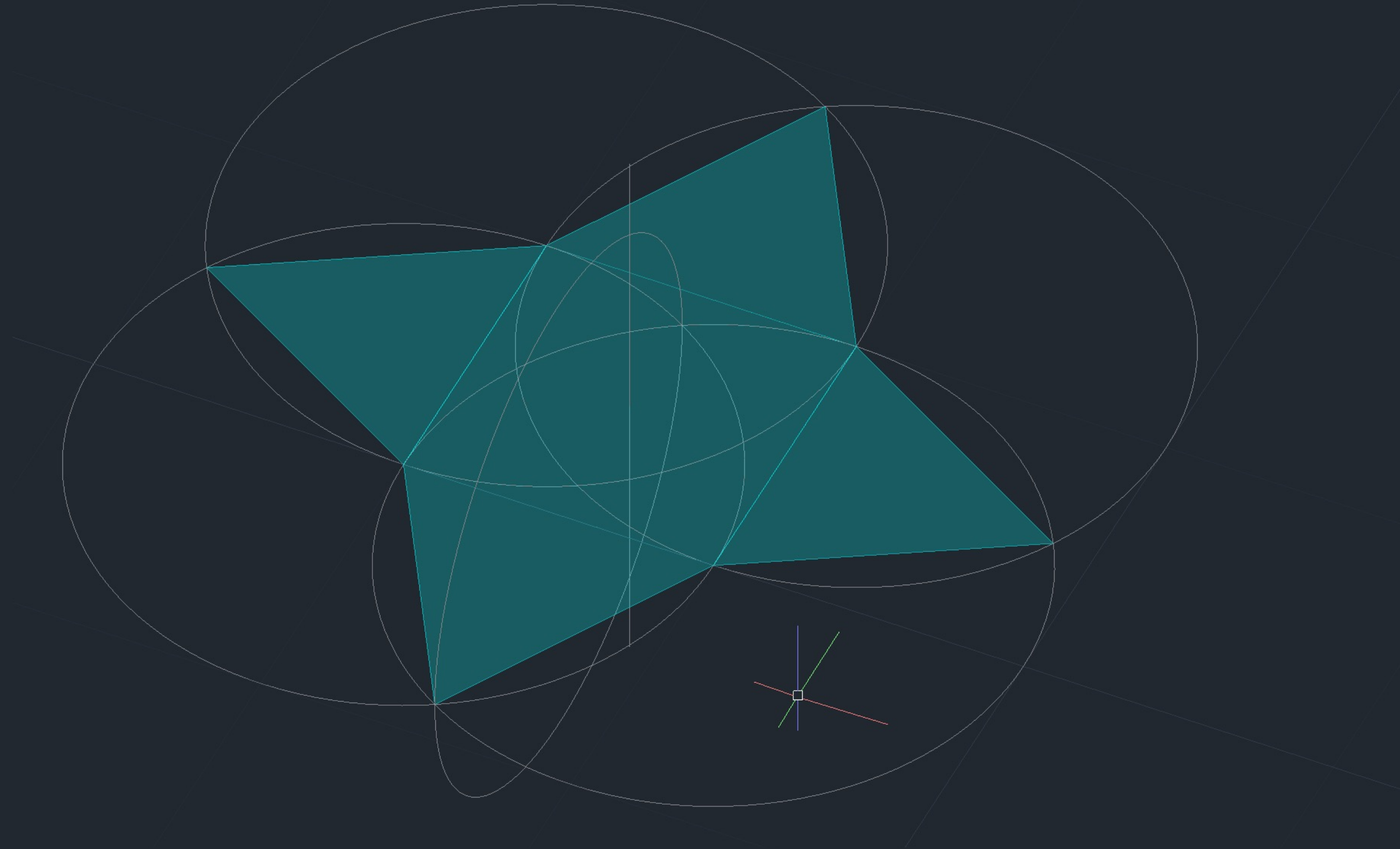
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Exerc. 1.2 – Formas Tridimensionais

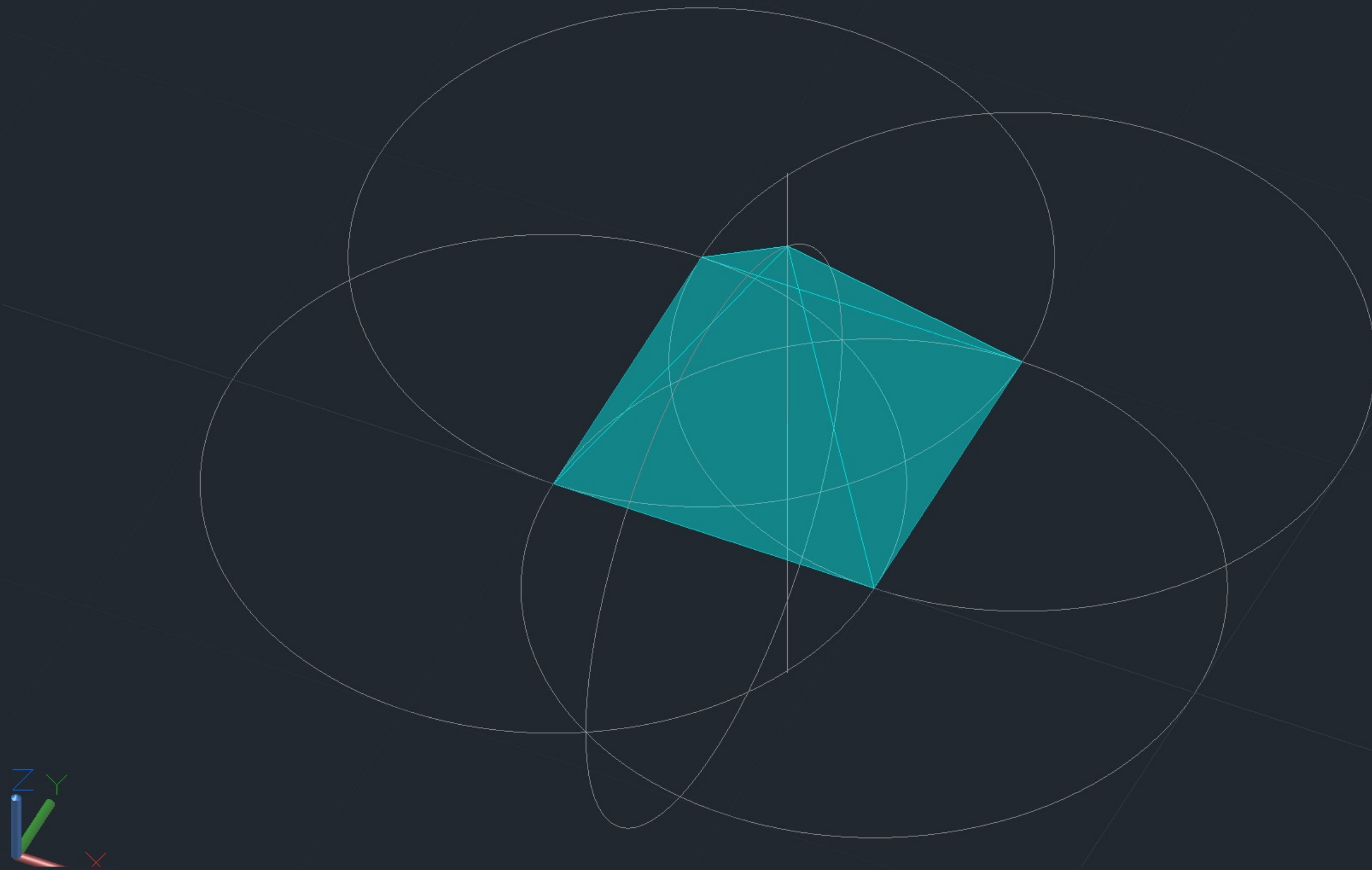


# Exerc. 1.2 – Formas Tridimensionais





# Exerc. 1.2 – Formas Tridimensionais



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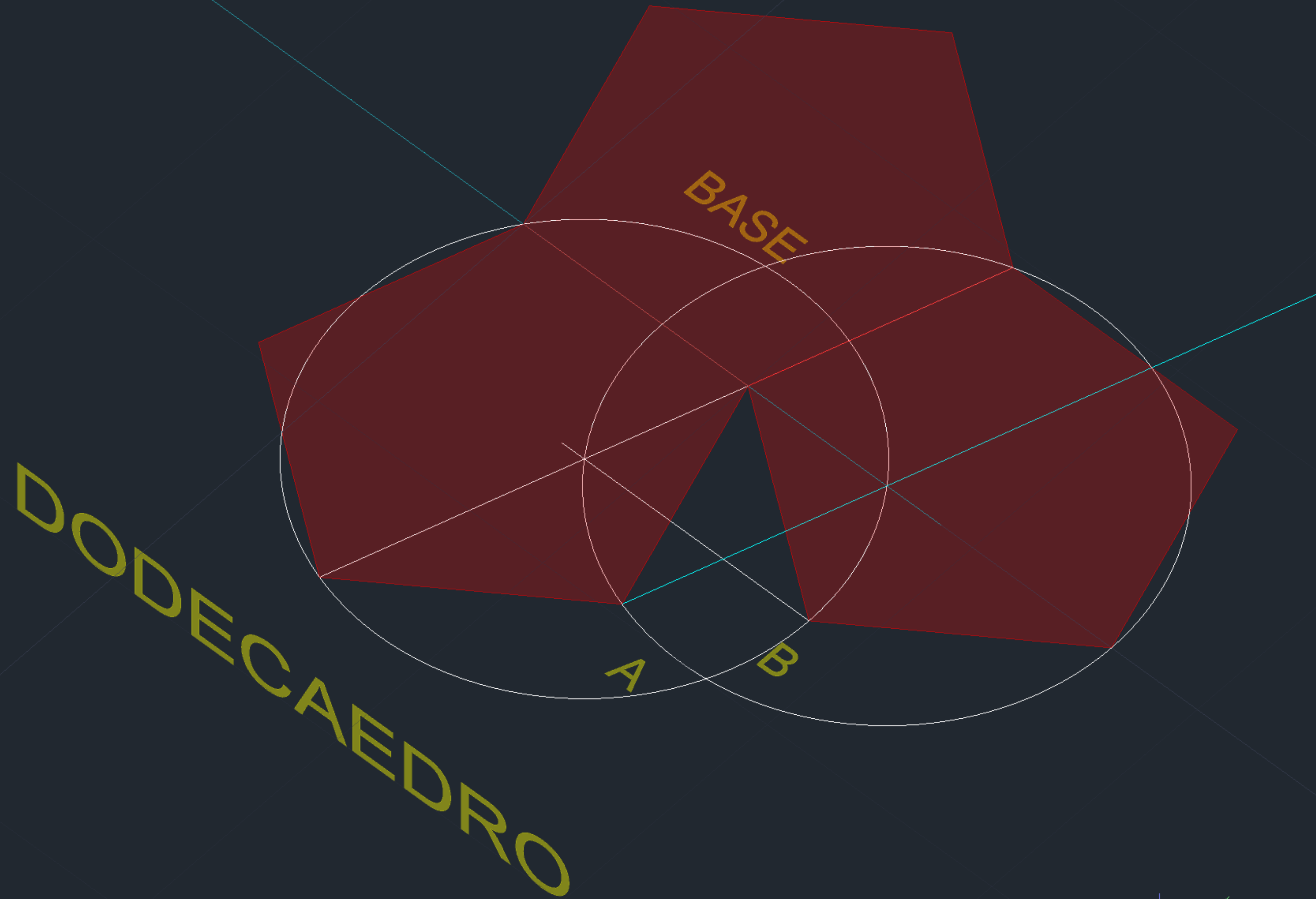
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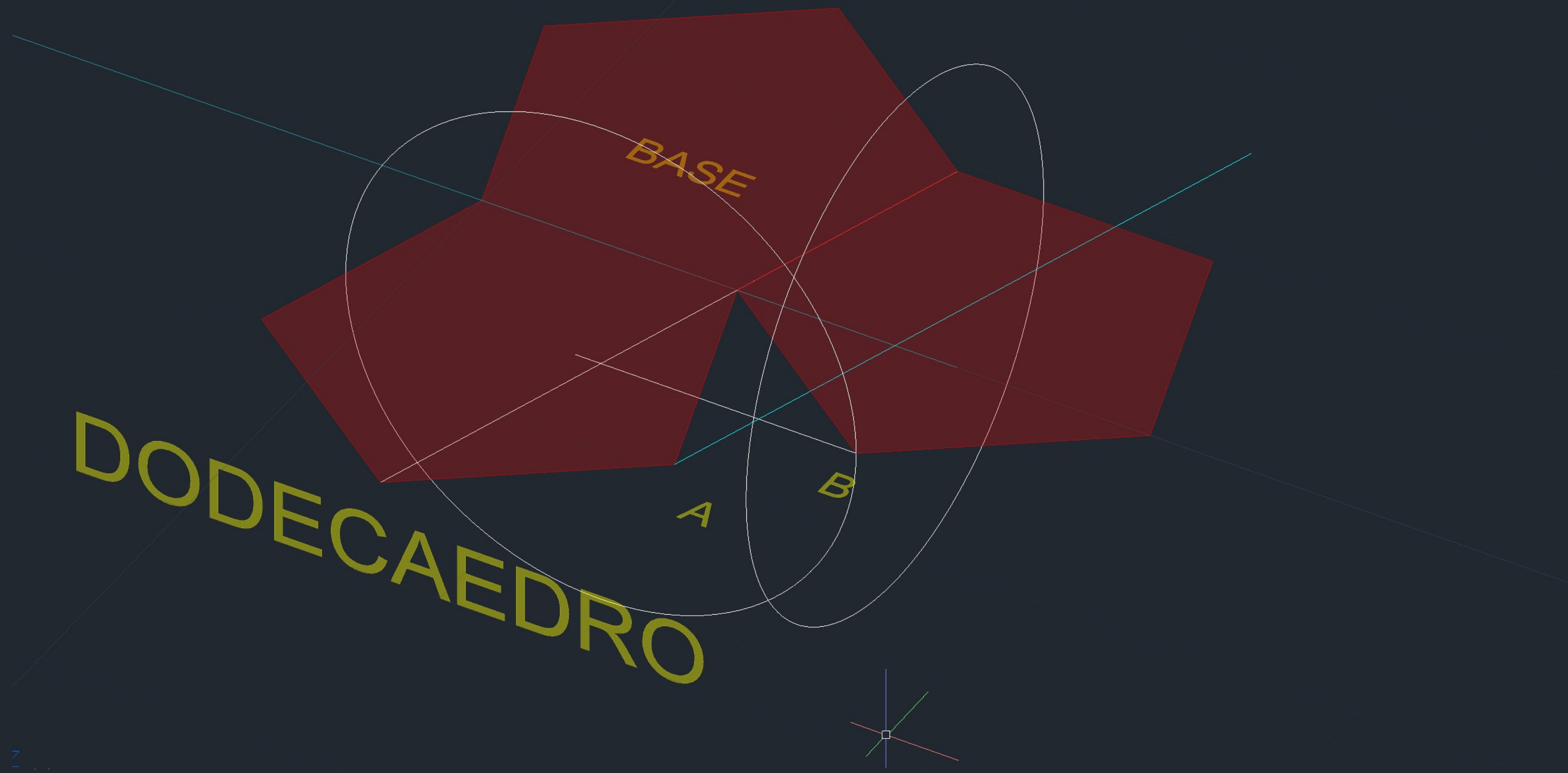


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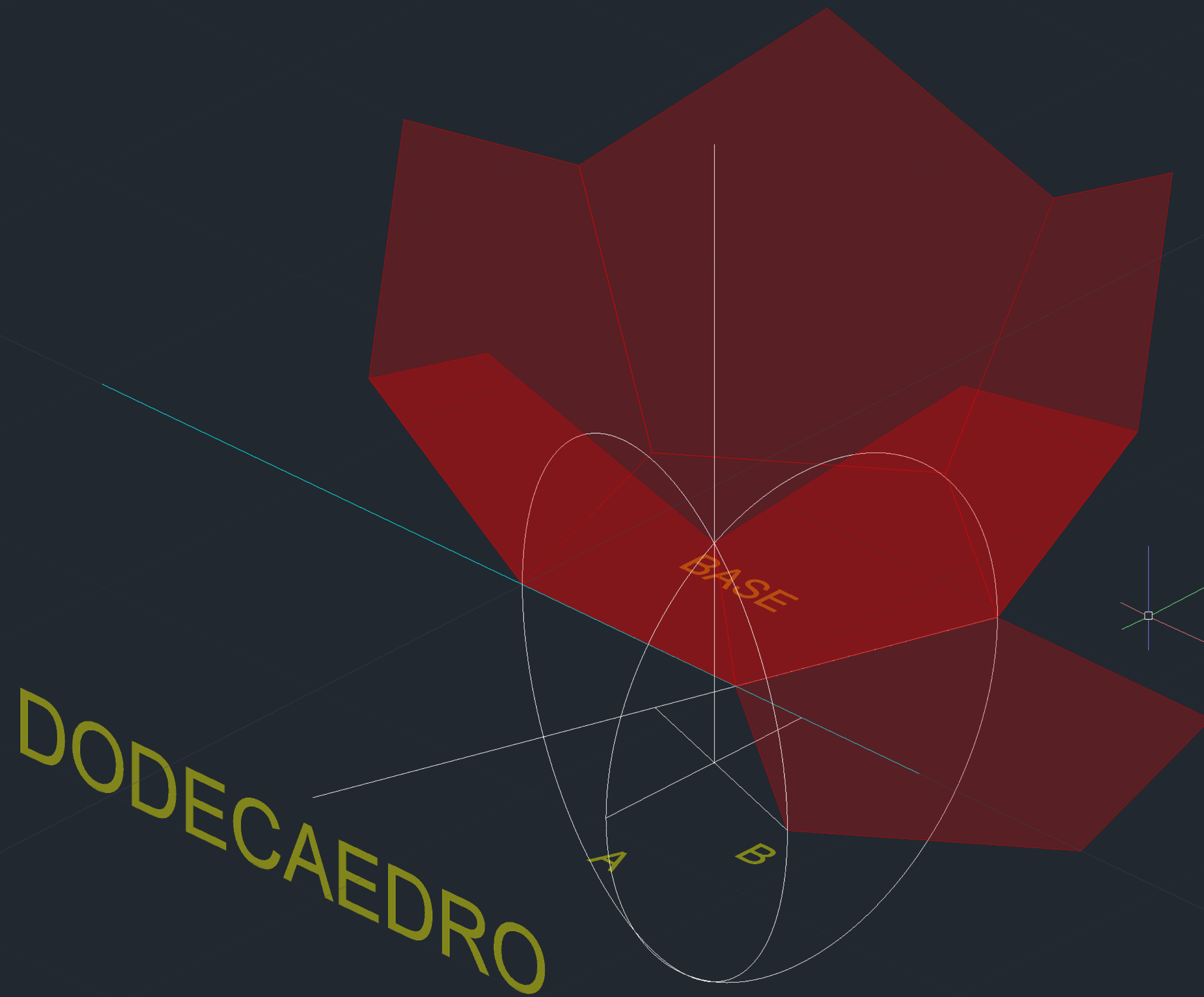


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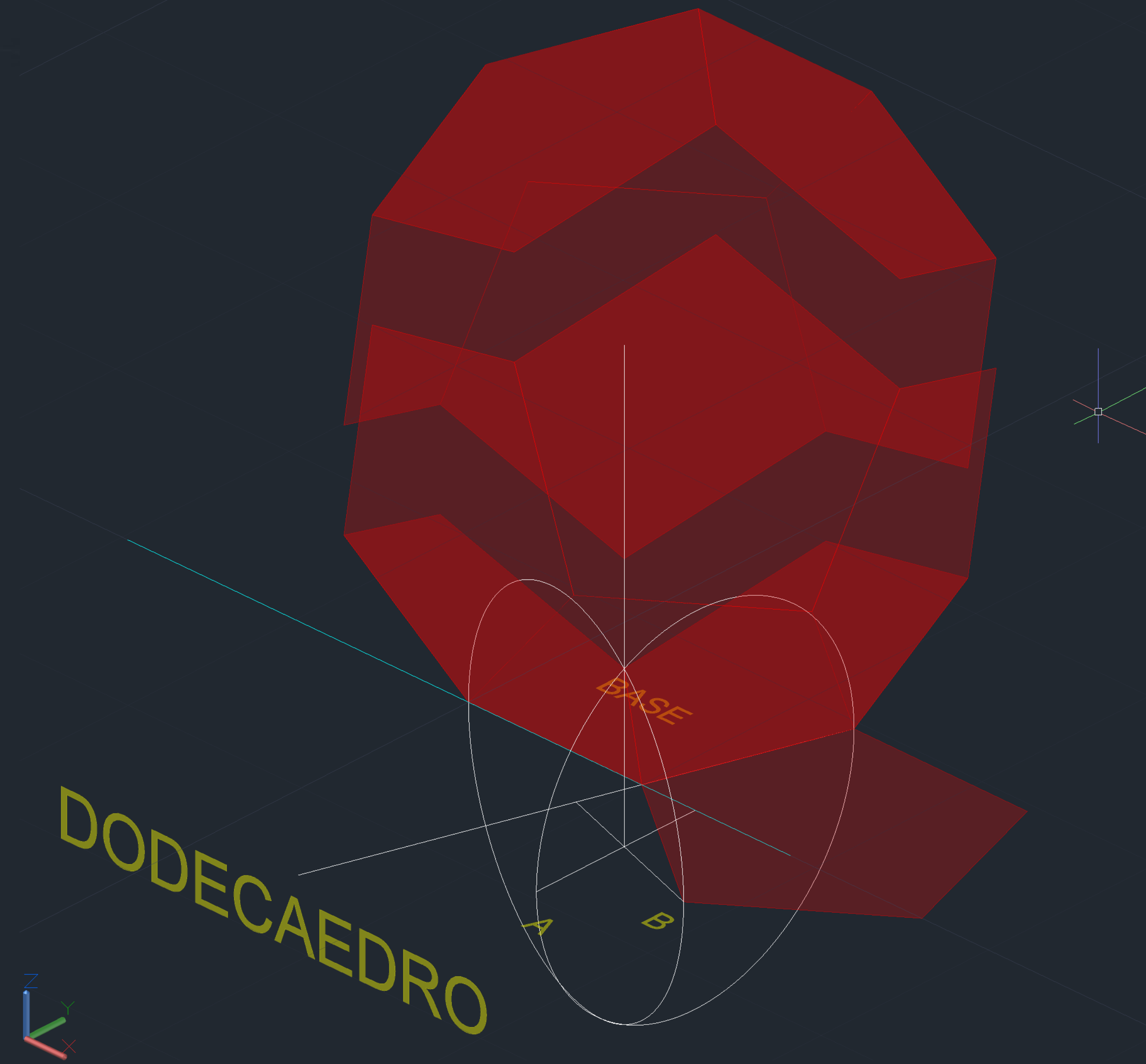


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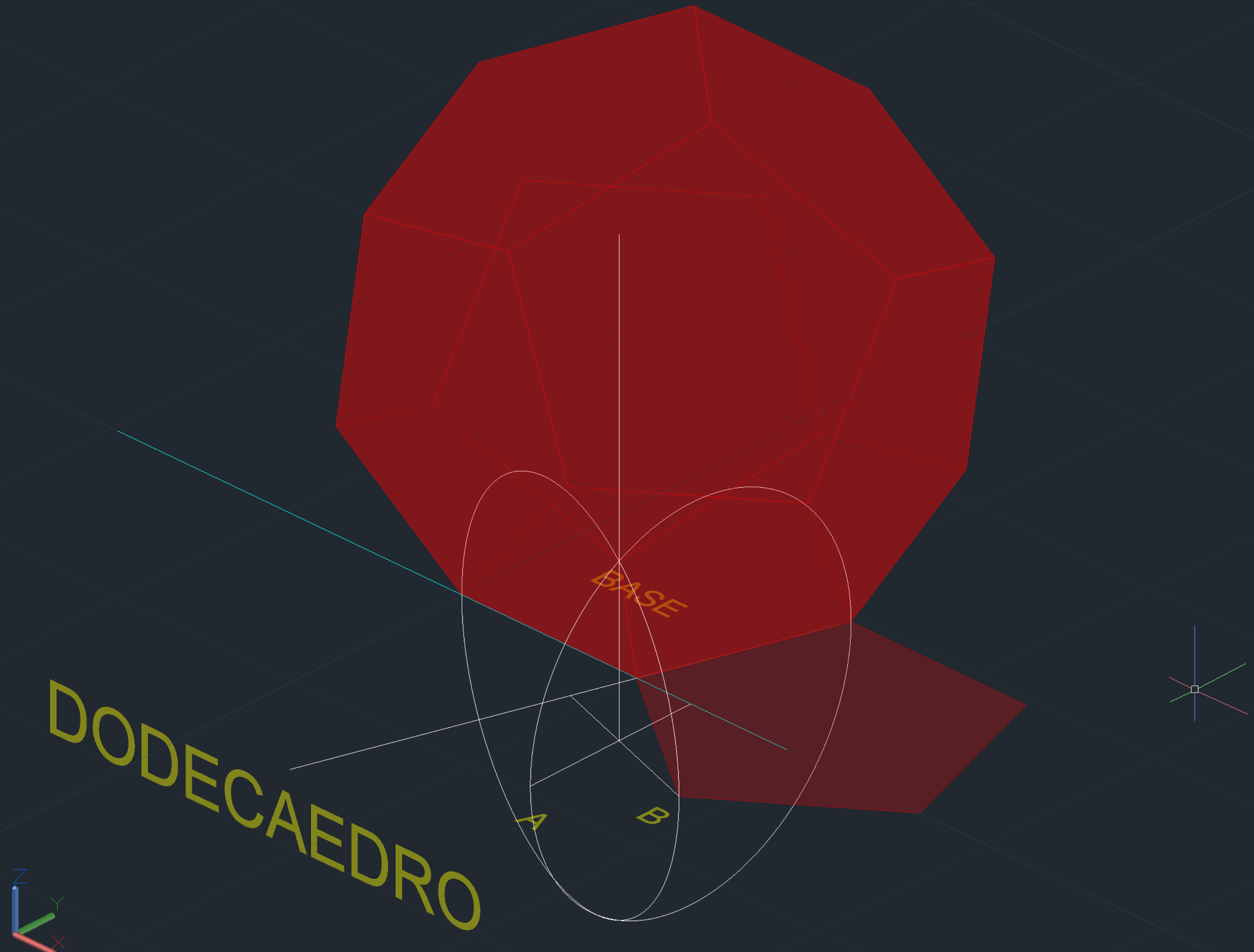




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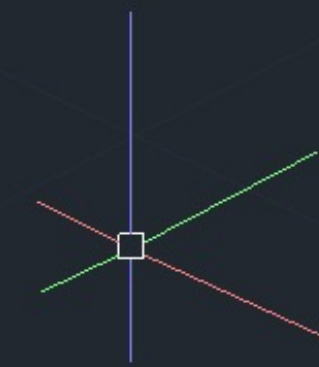
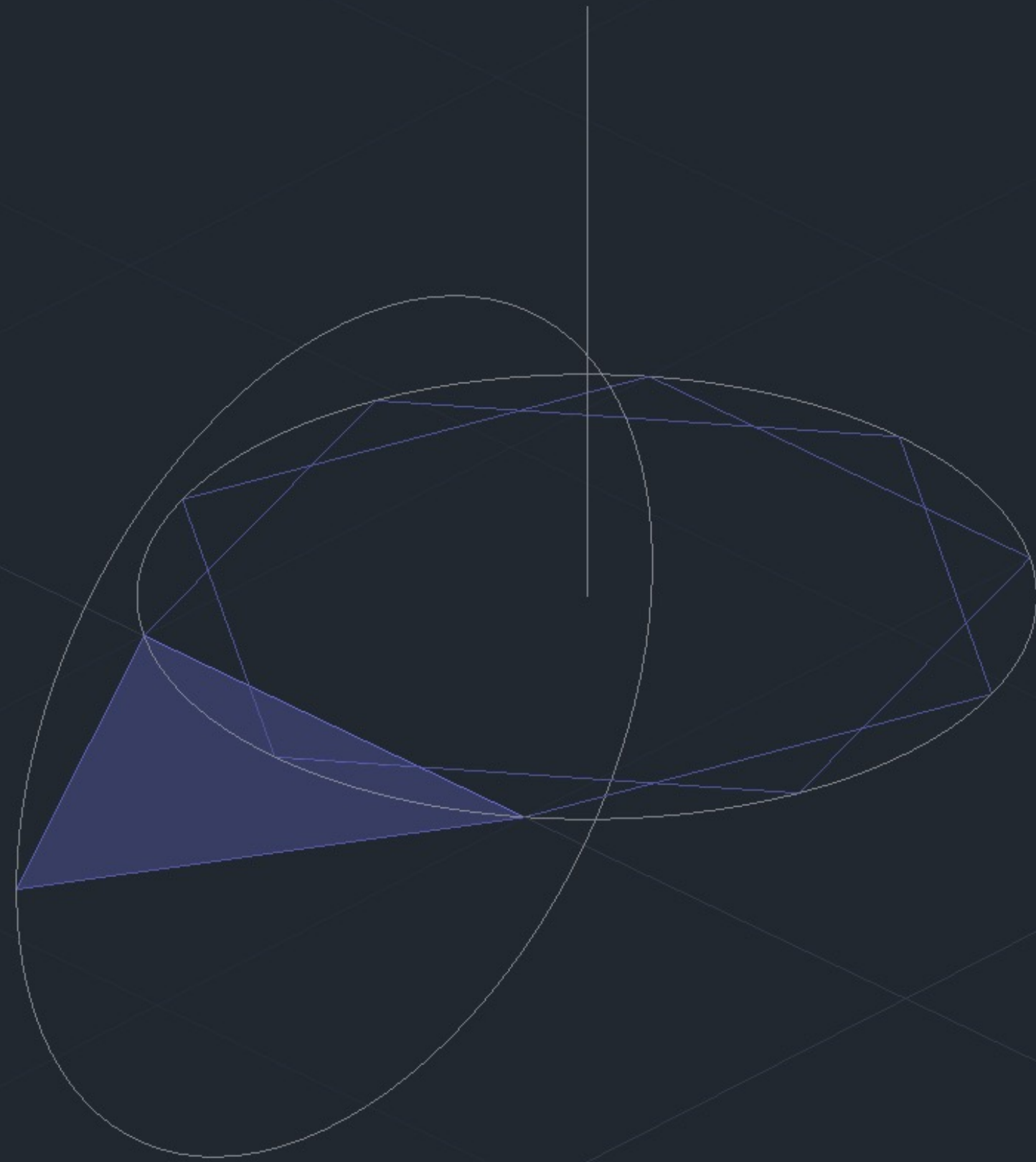




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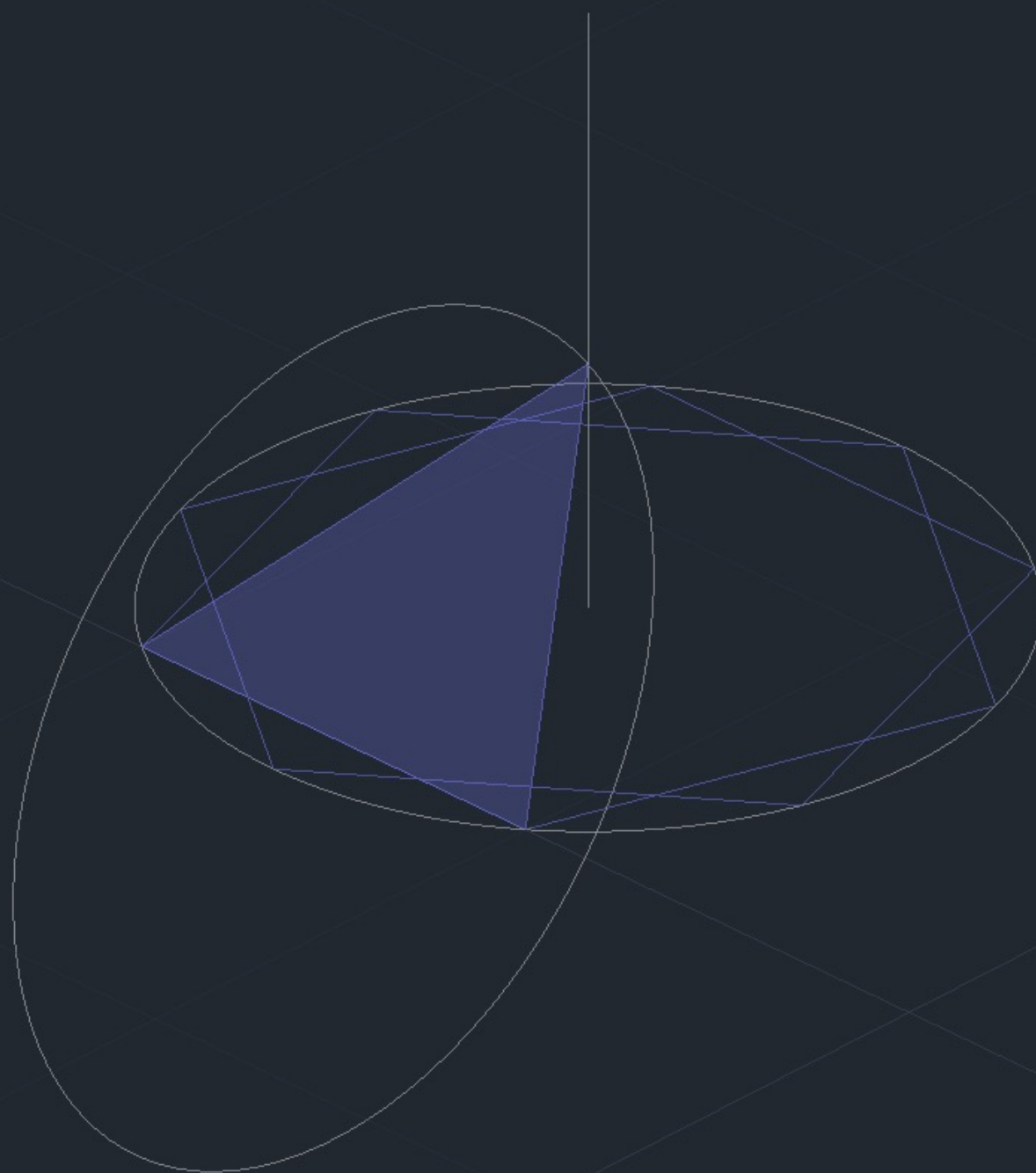
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Exerc. 1.2 – Formas Tridimensionais

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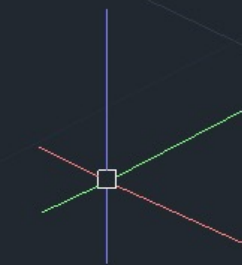
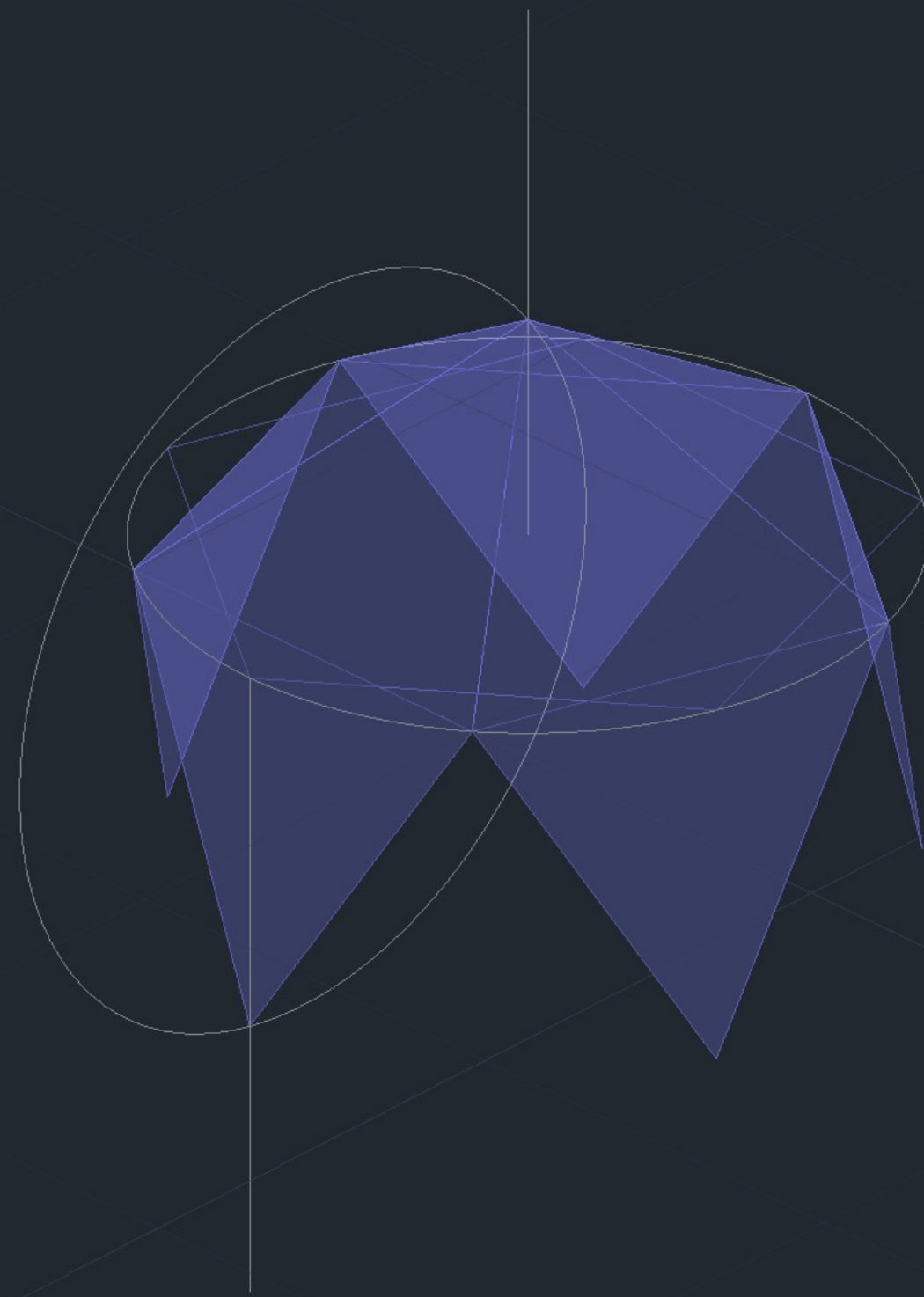


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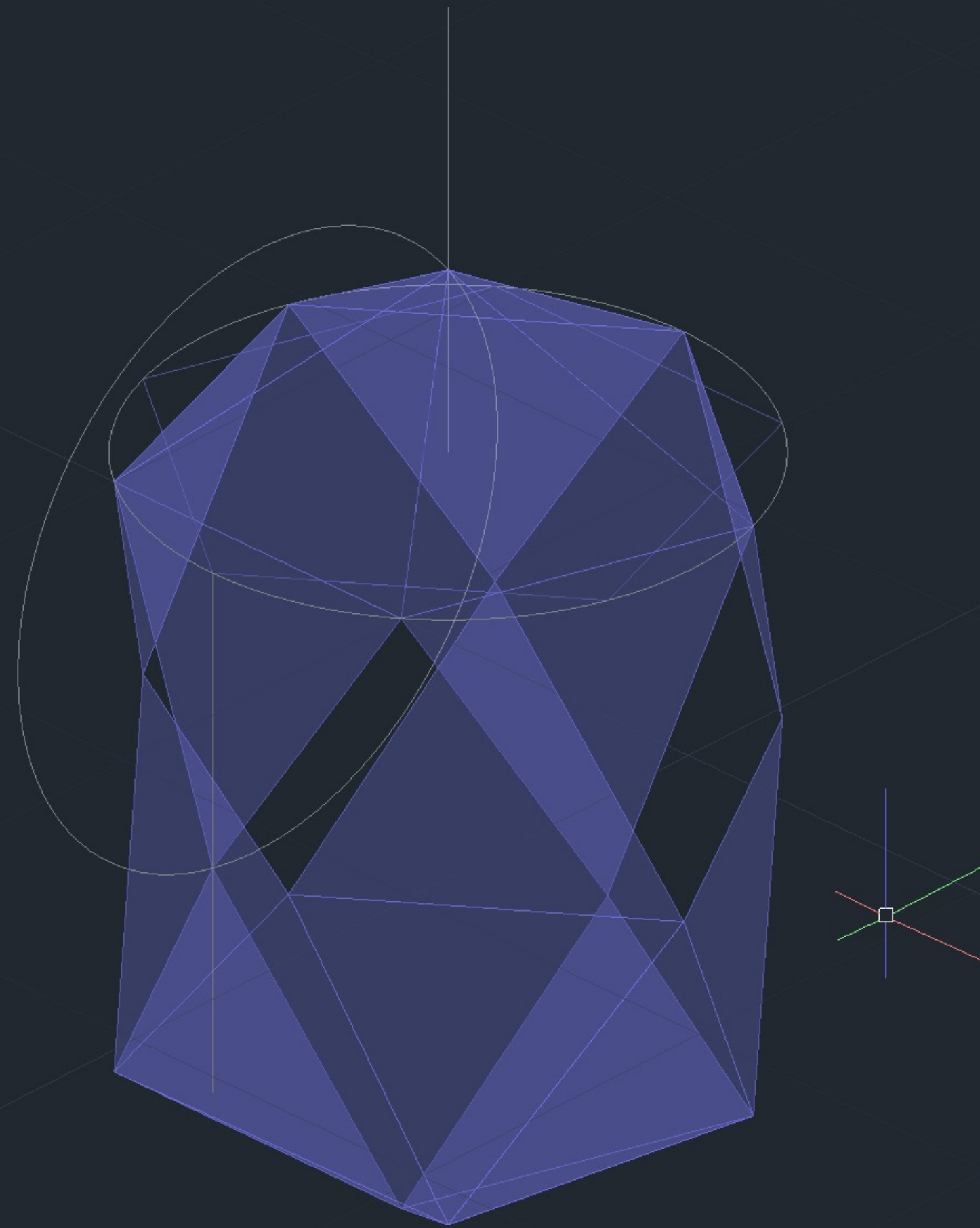
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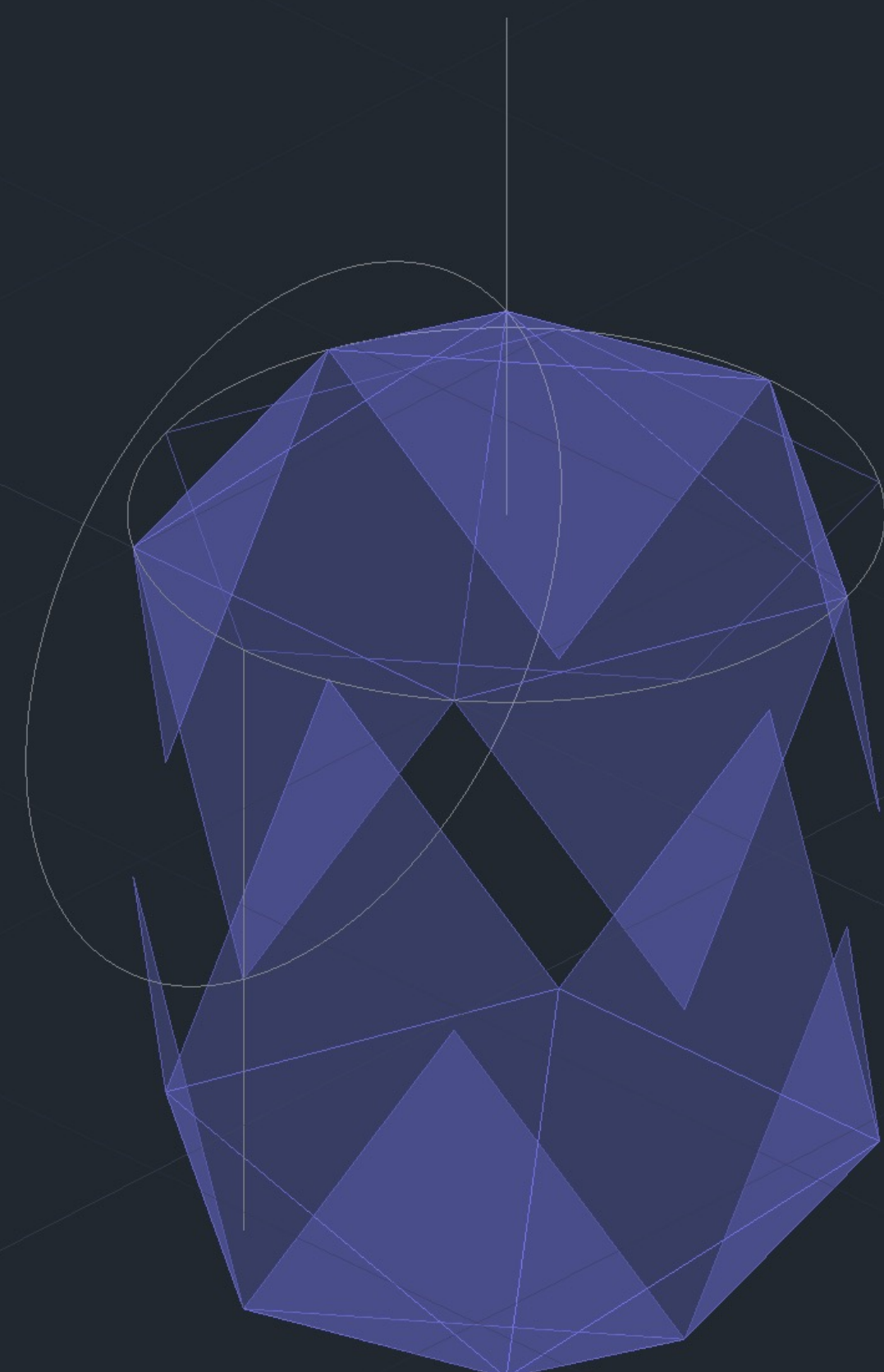
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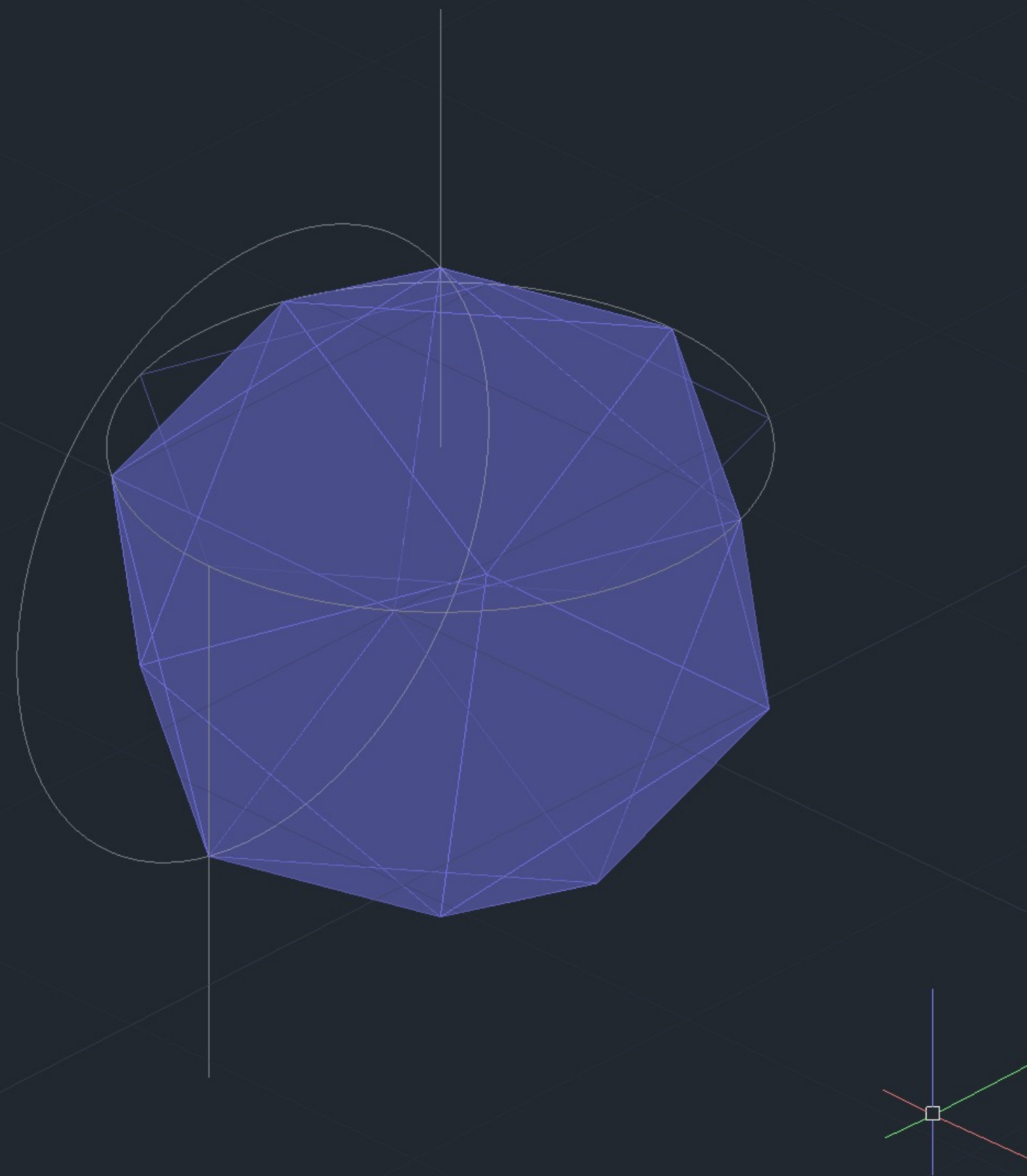


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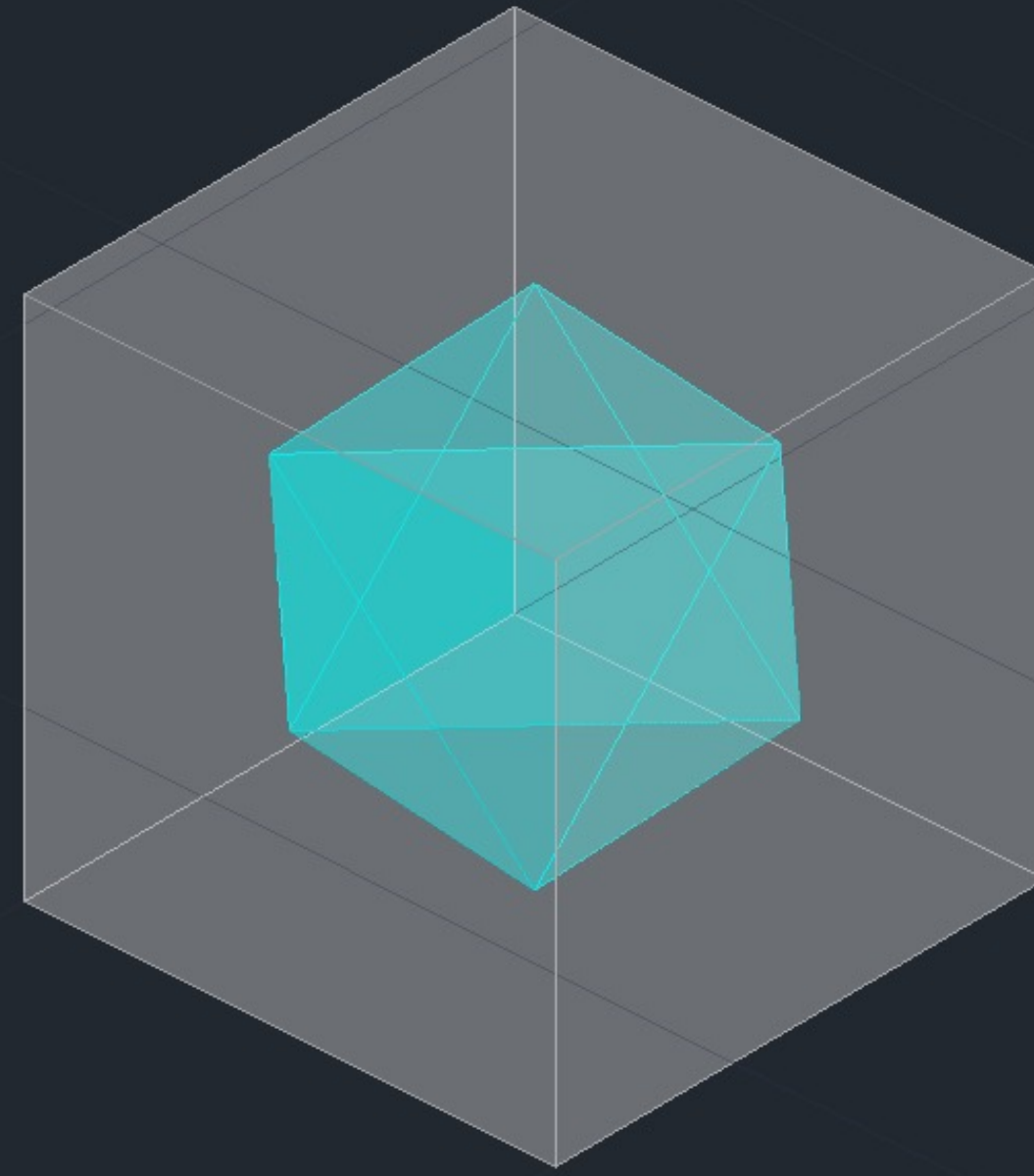


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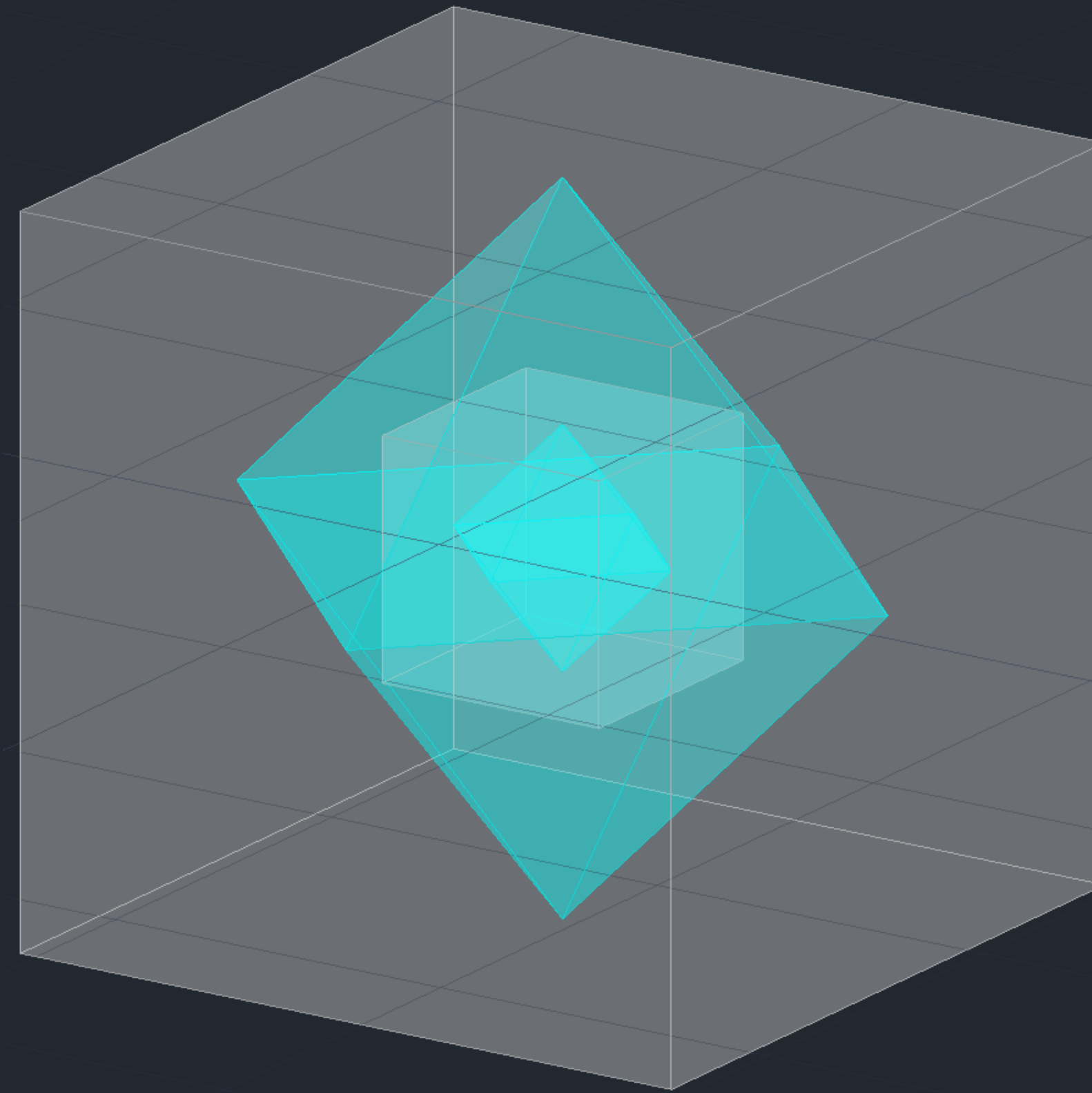


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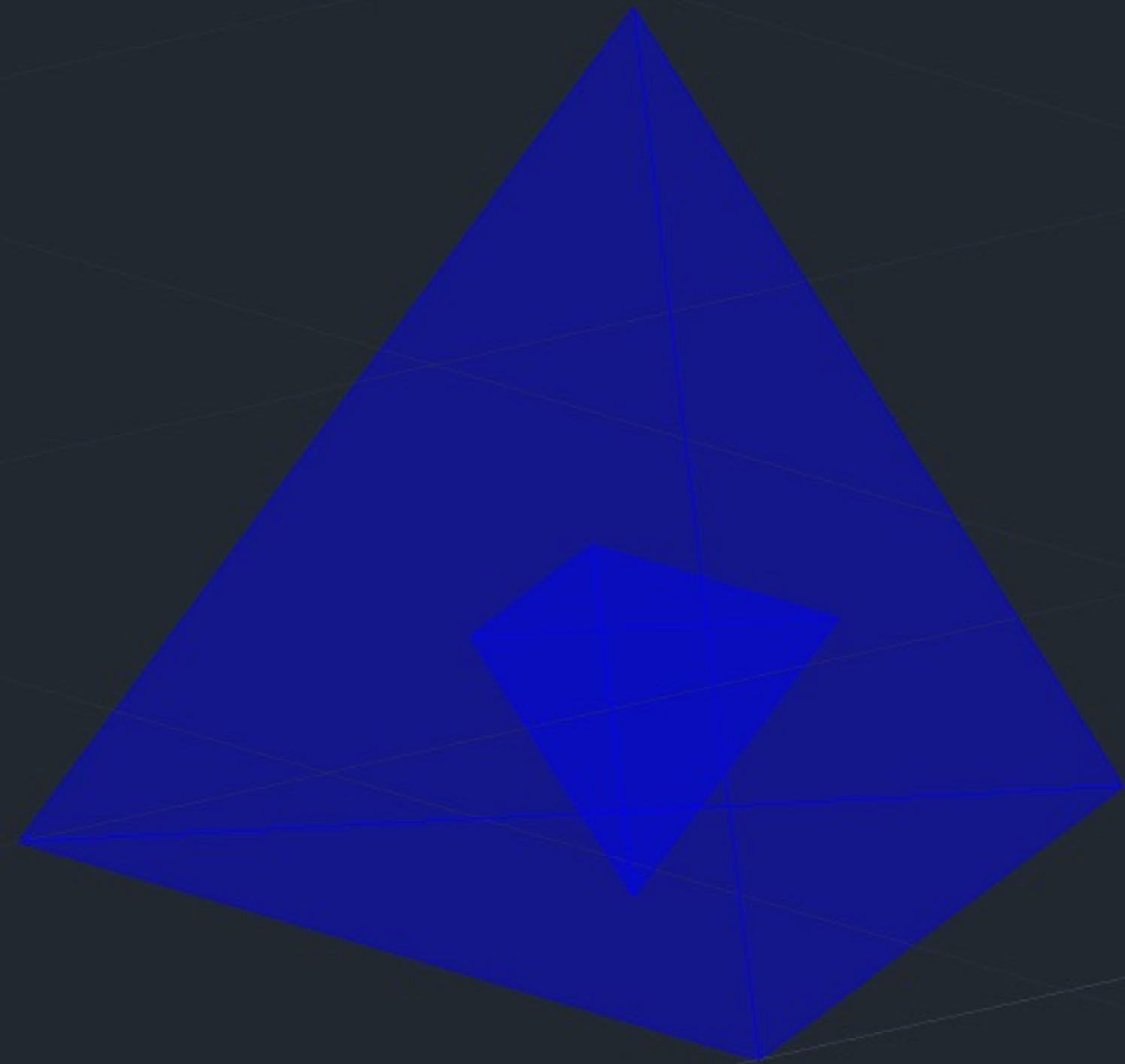


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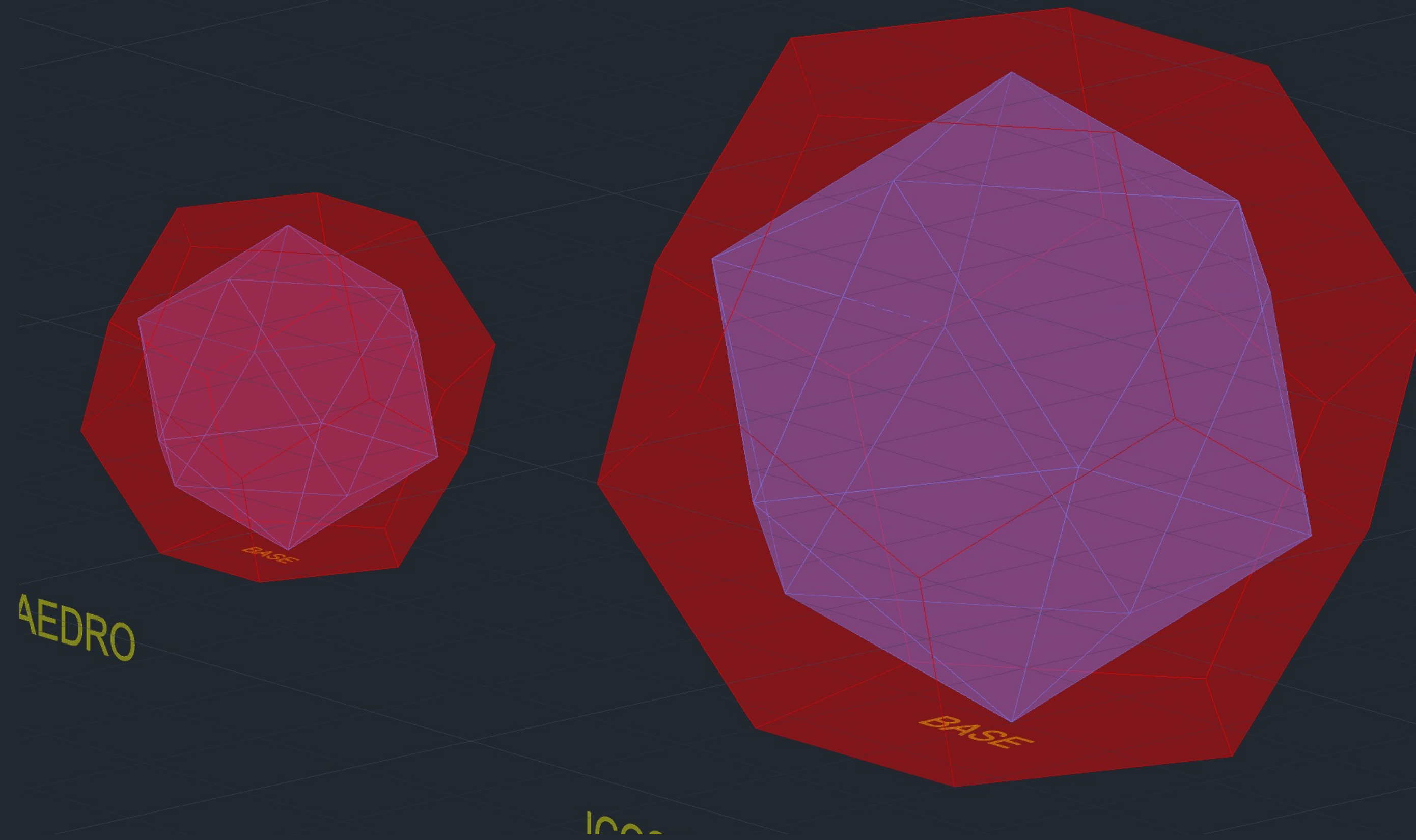




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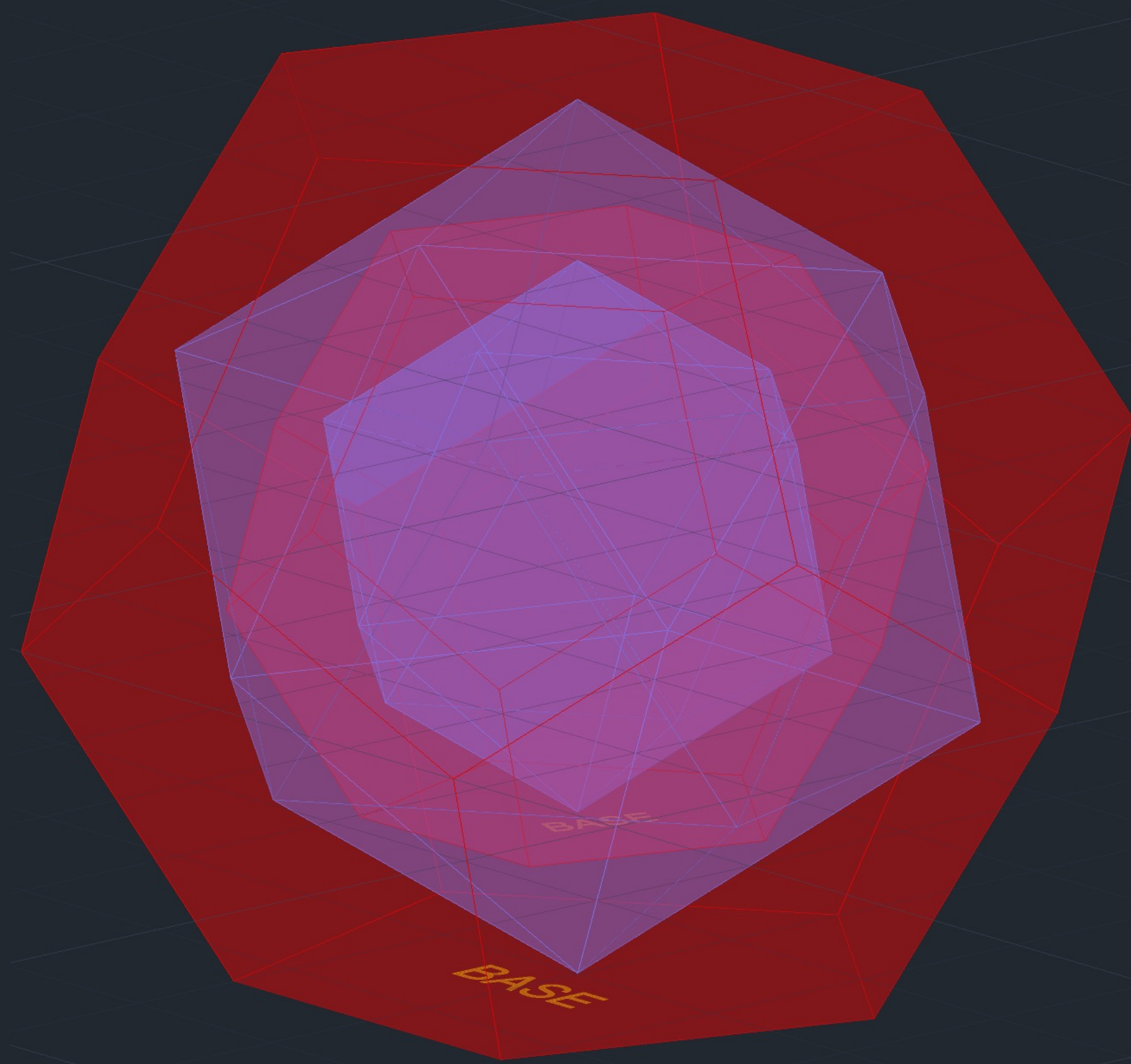


# Exerc. 1.3 – Dualidades



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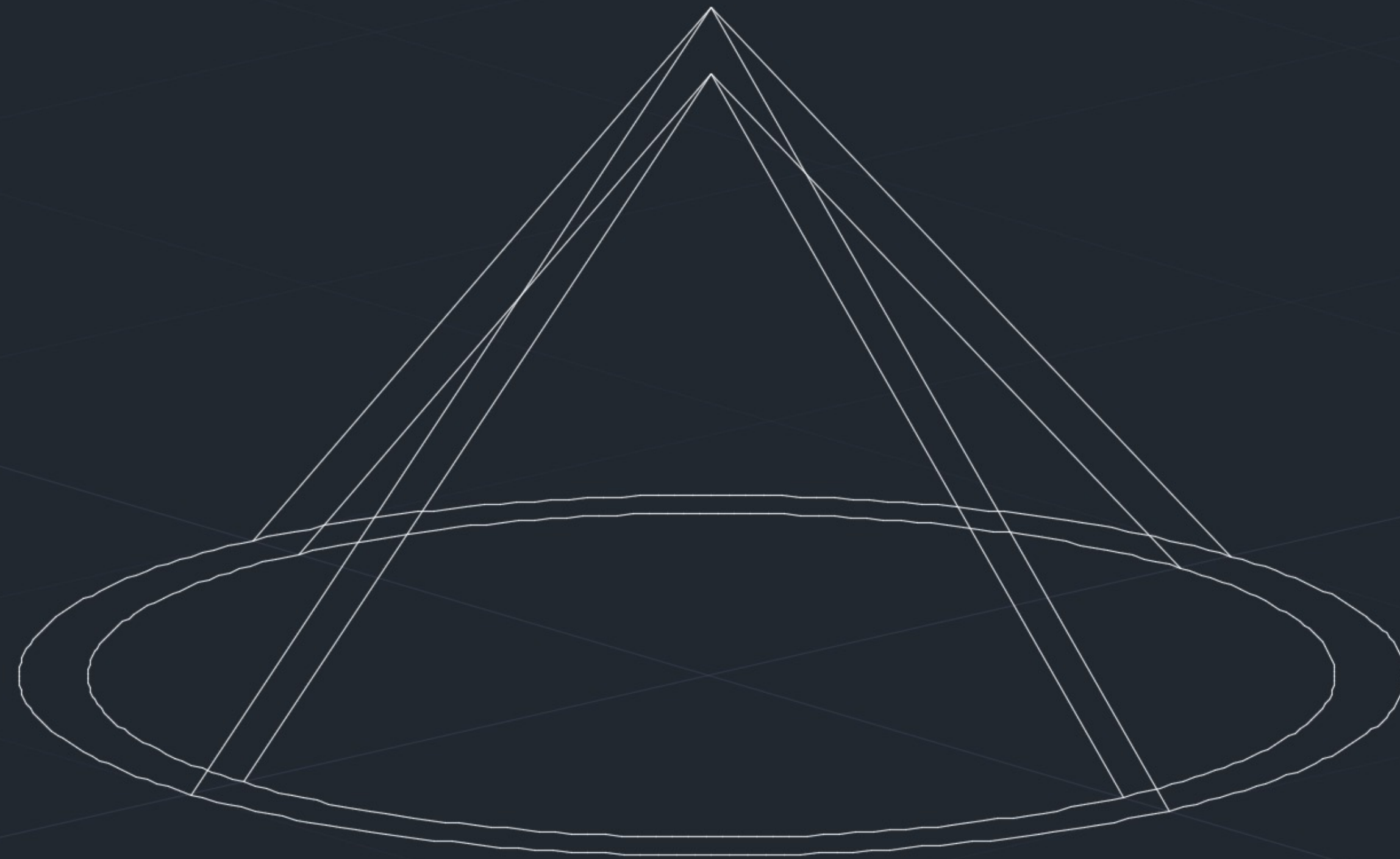




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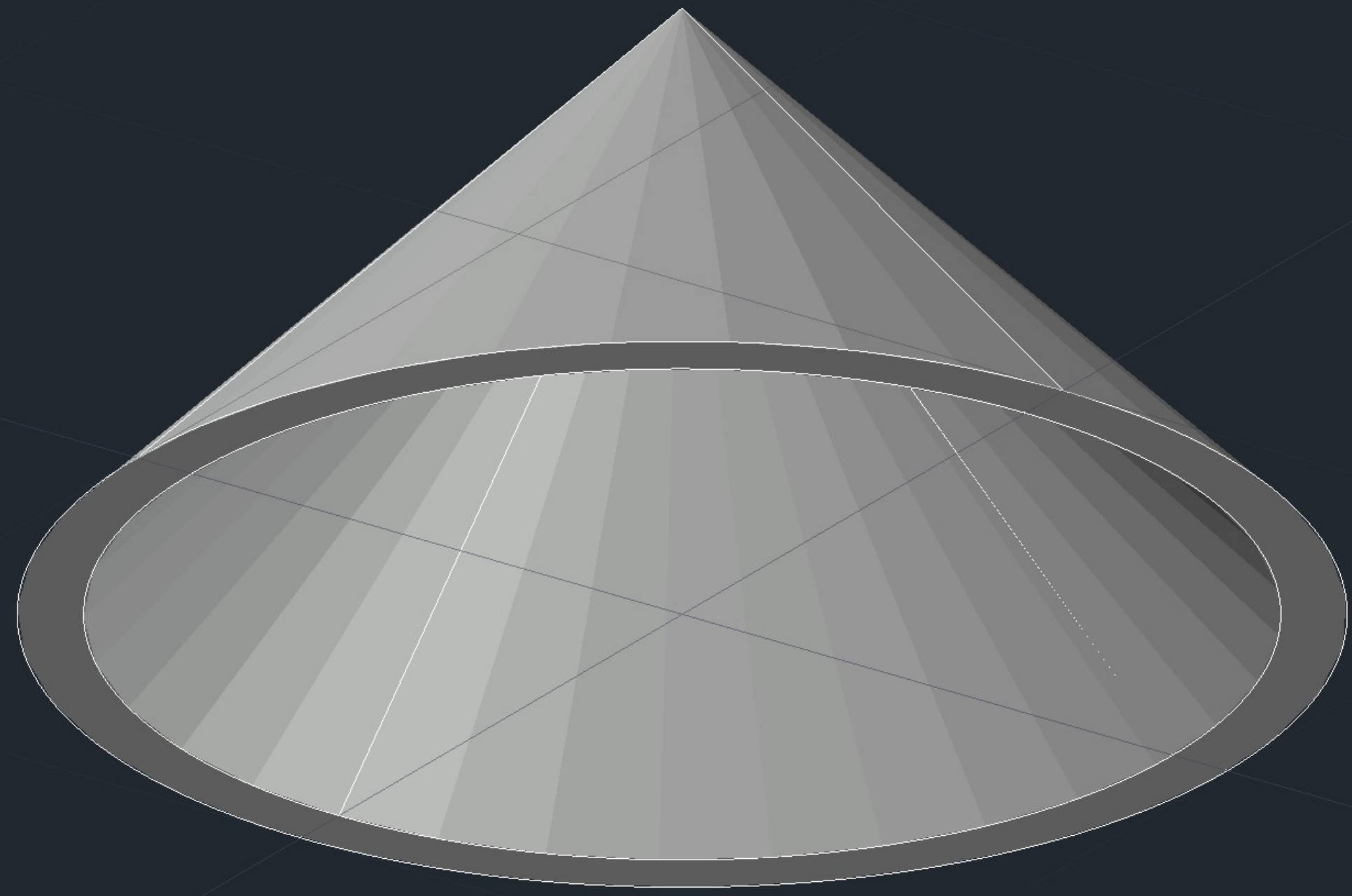


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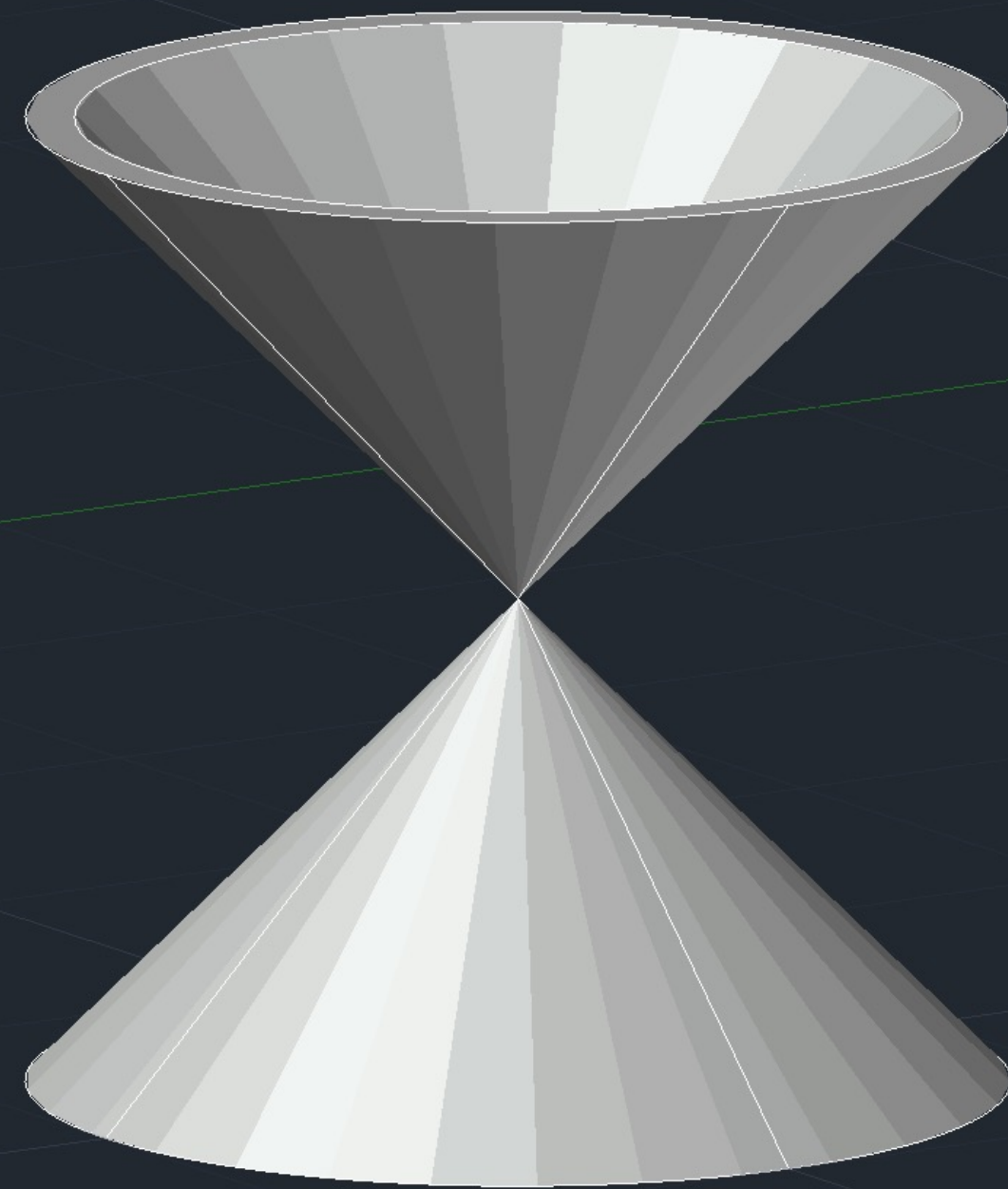
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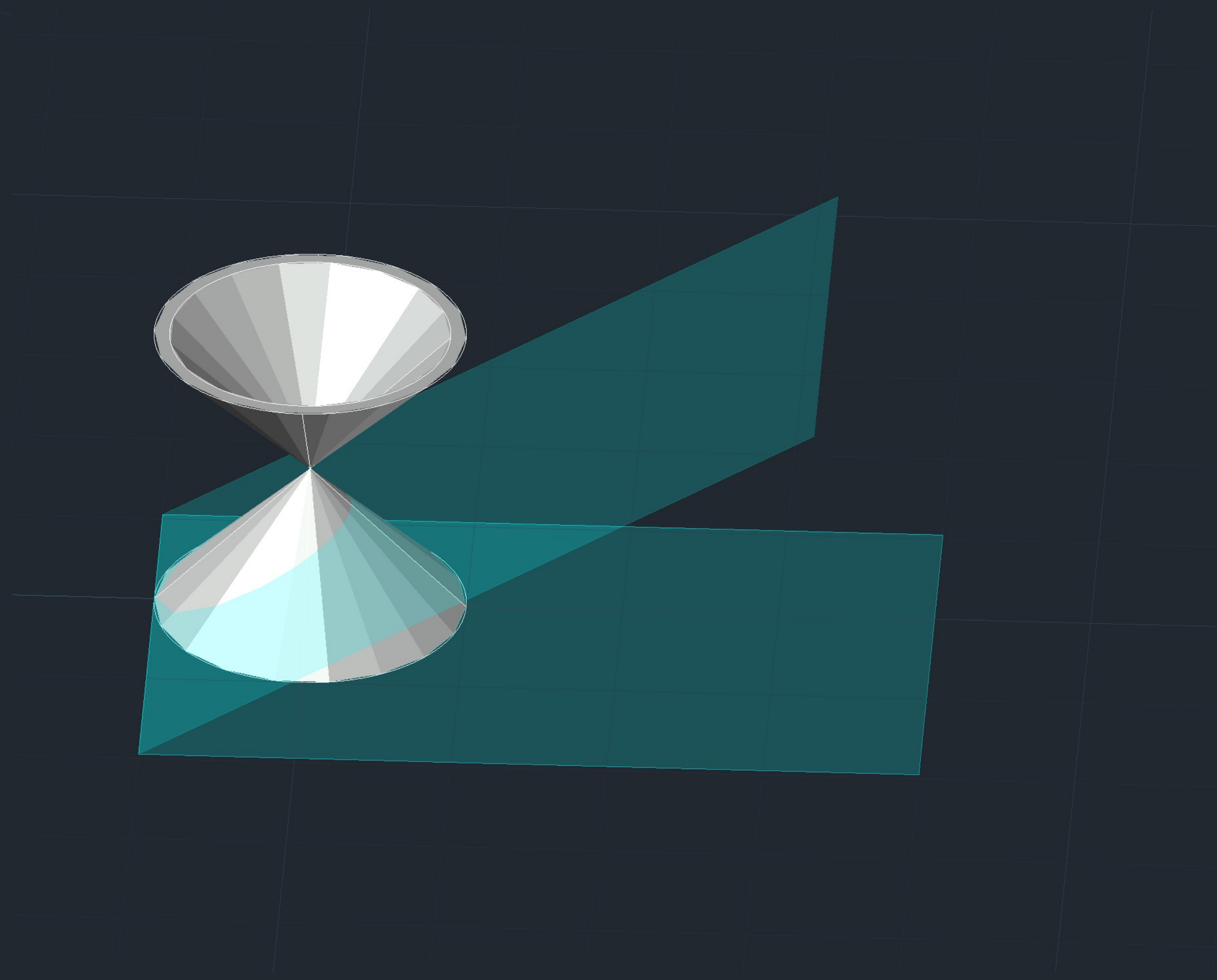


Exerc. 2.1 –Cone - Secções

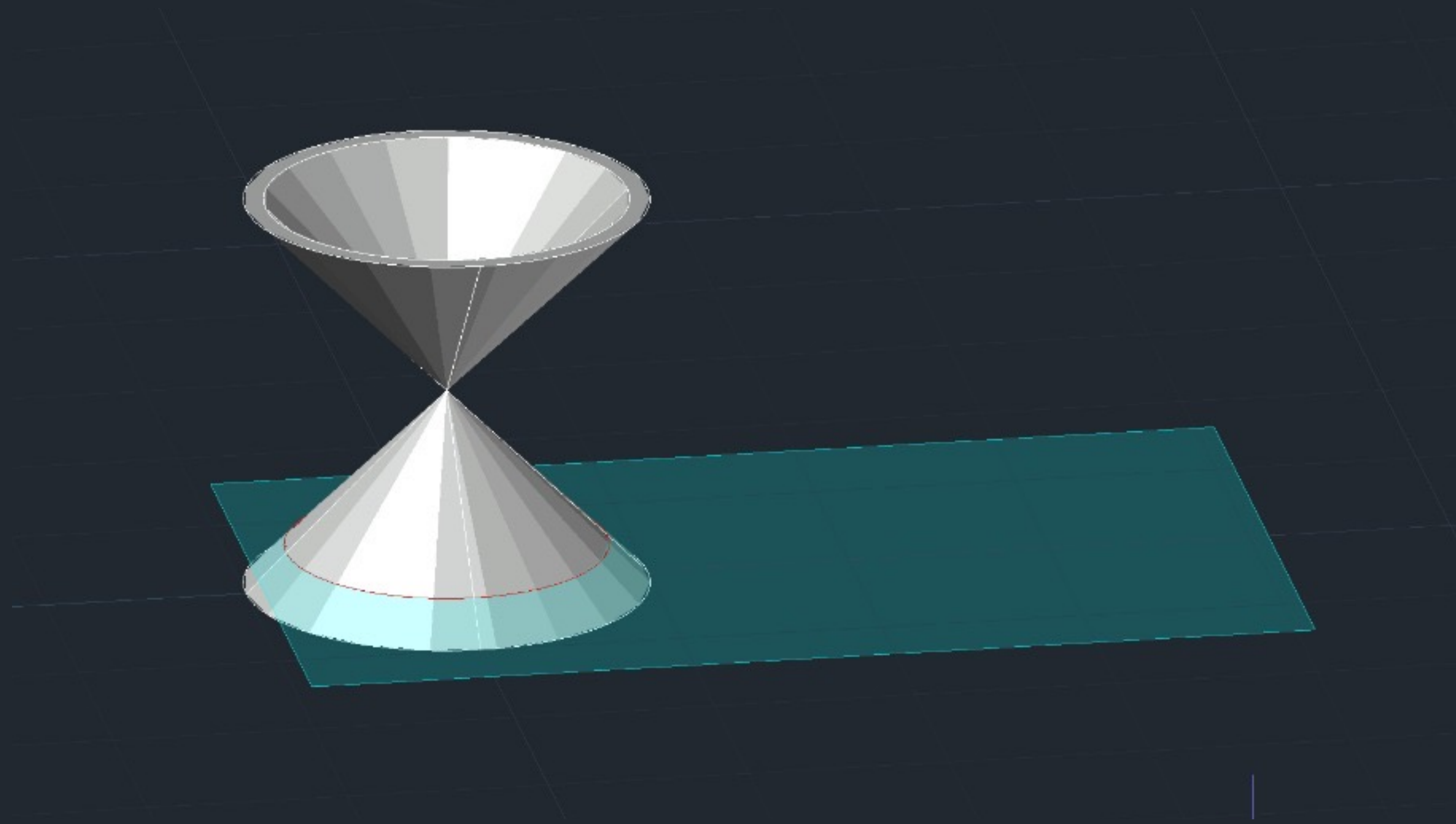




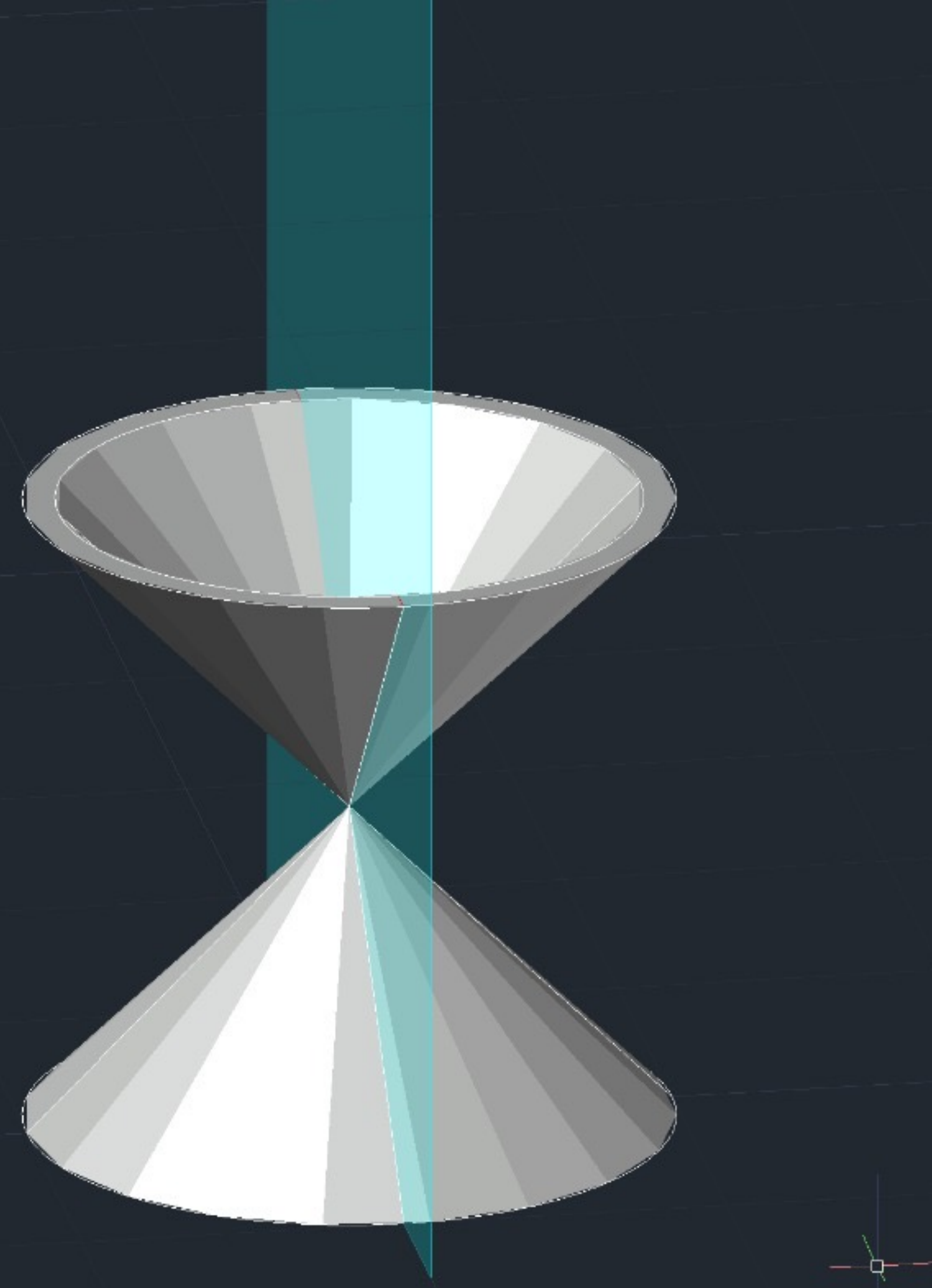
Exerc. 2.1 – Cone - Secções



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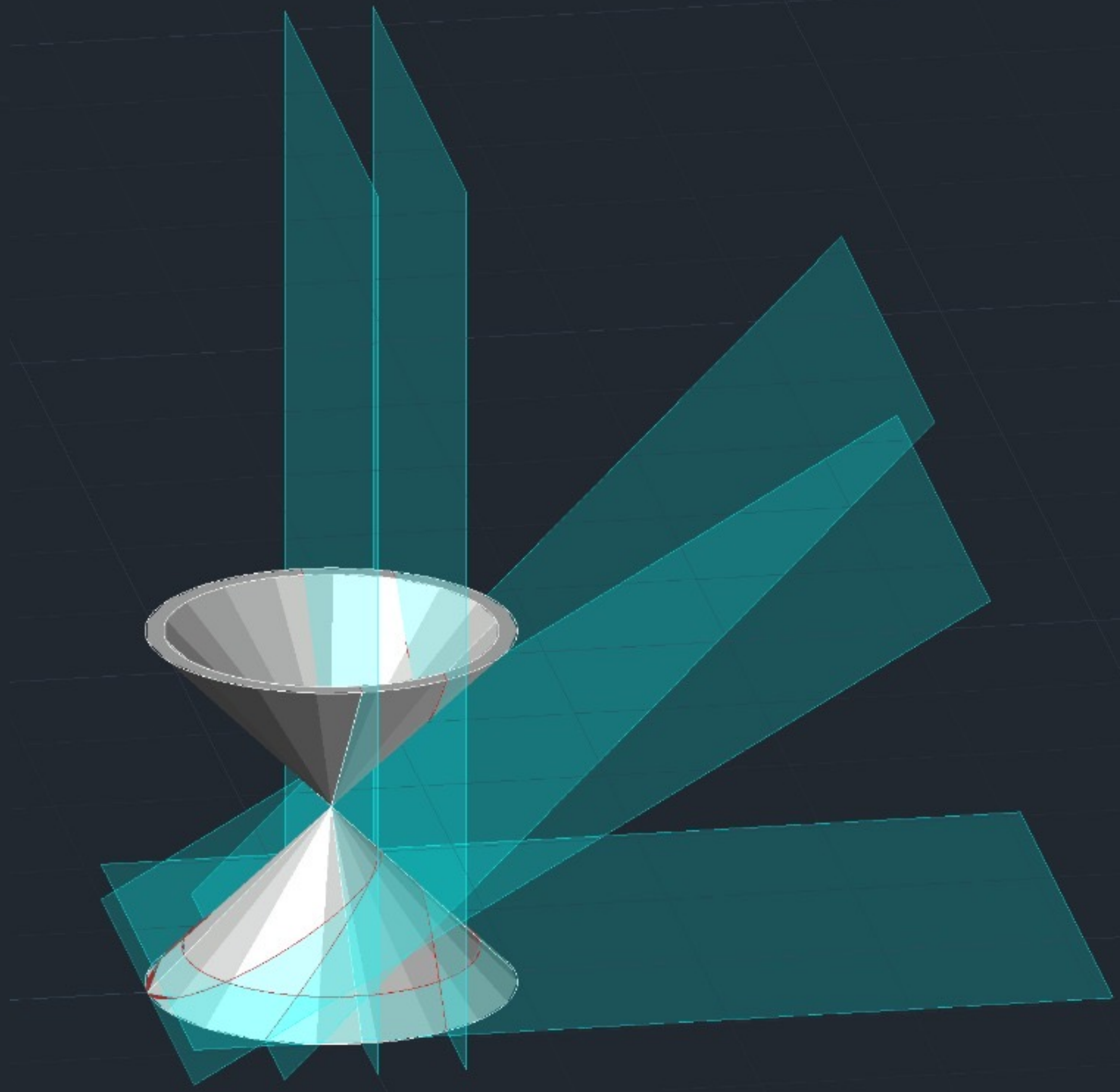


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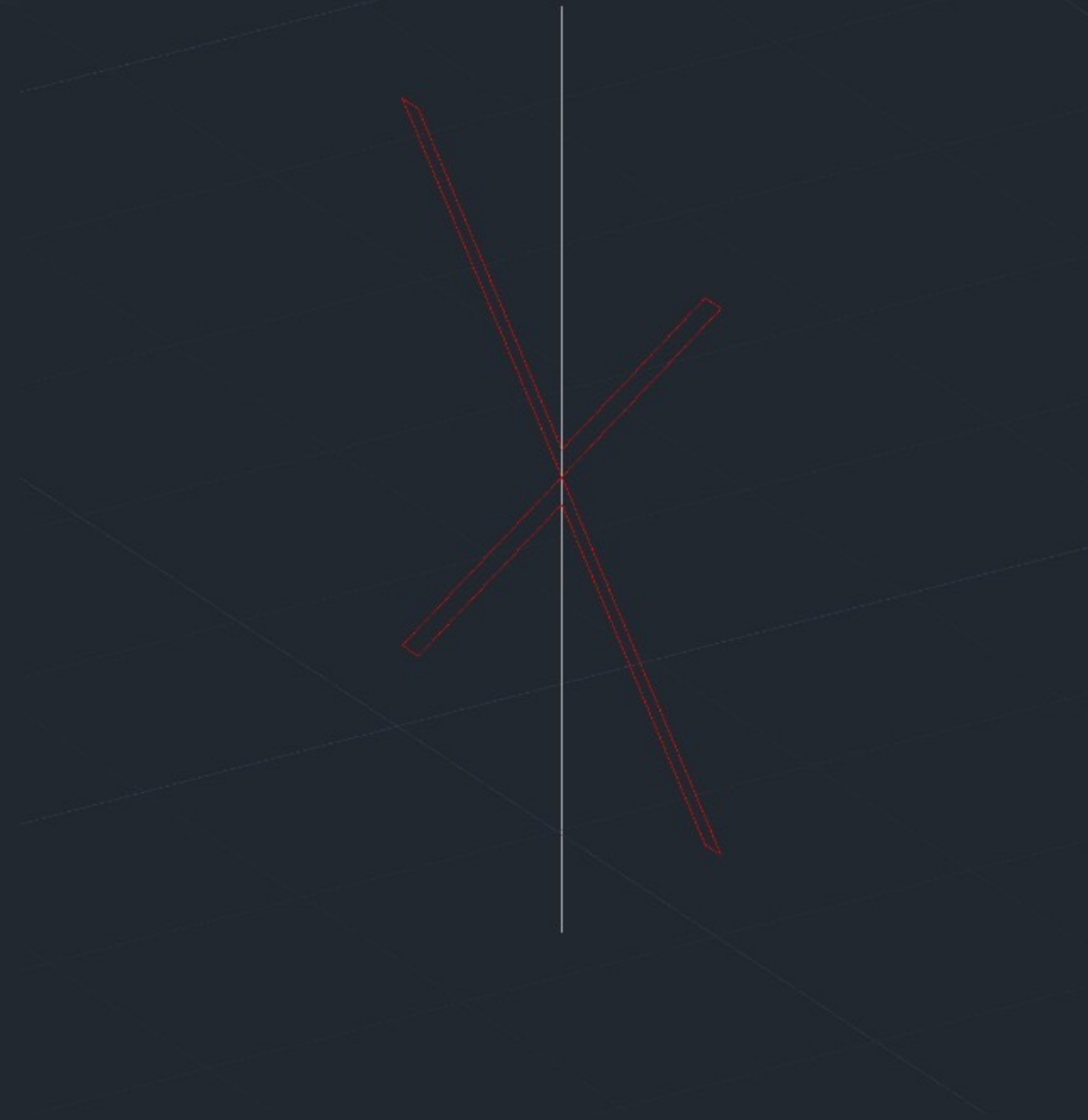


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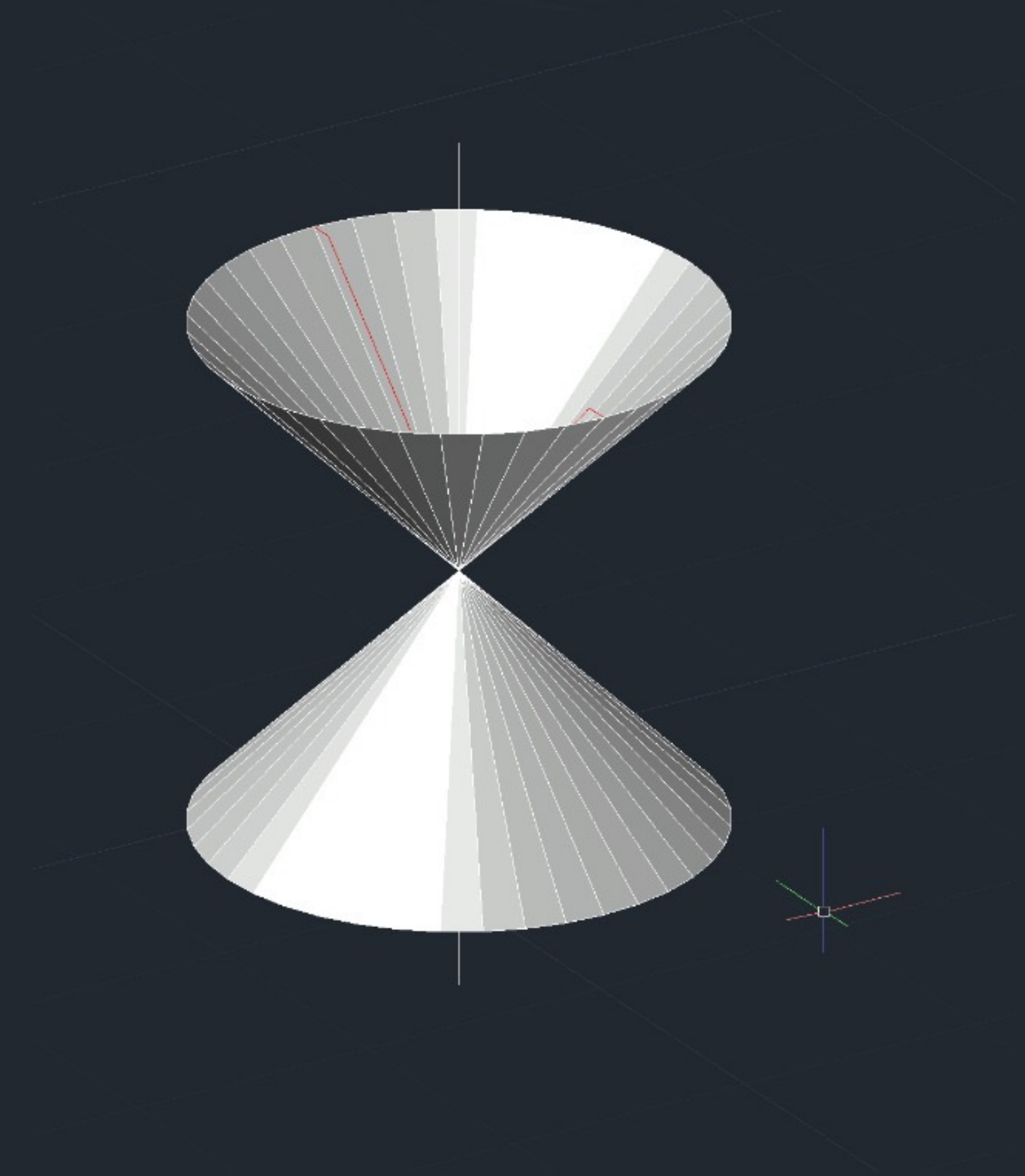




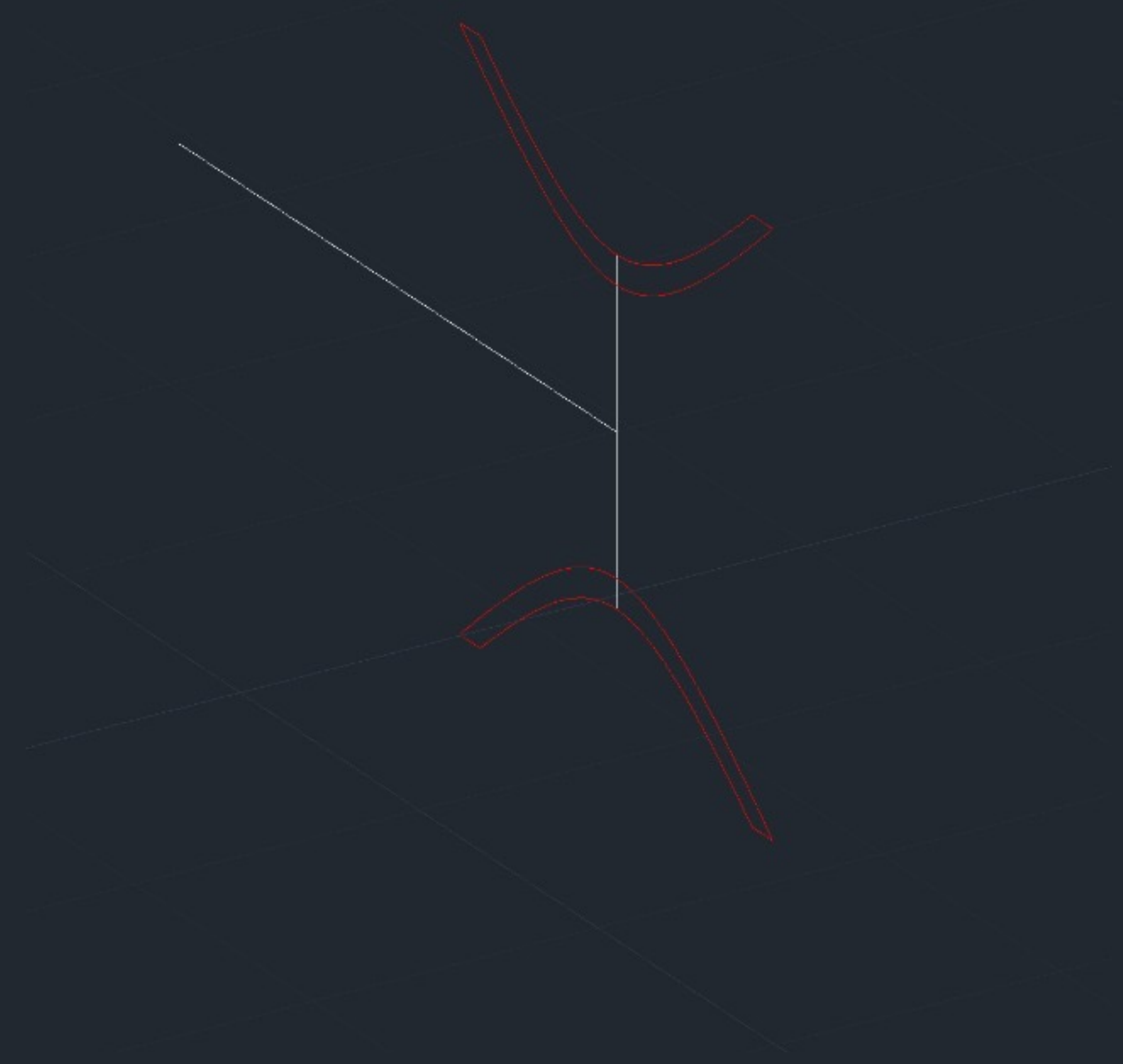
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Exerc. 2.2–Superfícies de Revolução

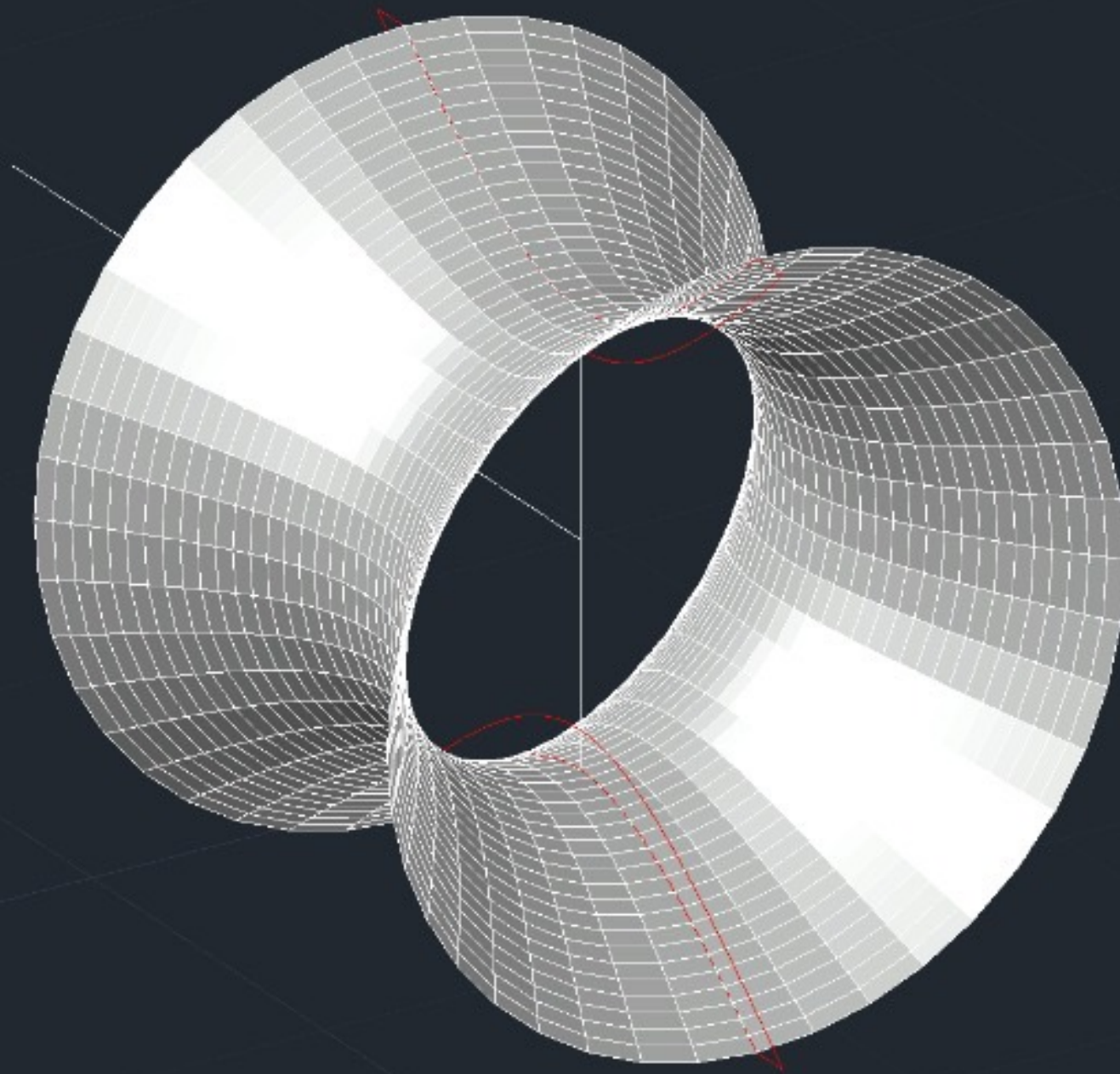


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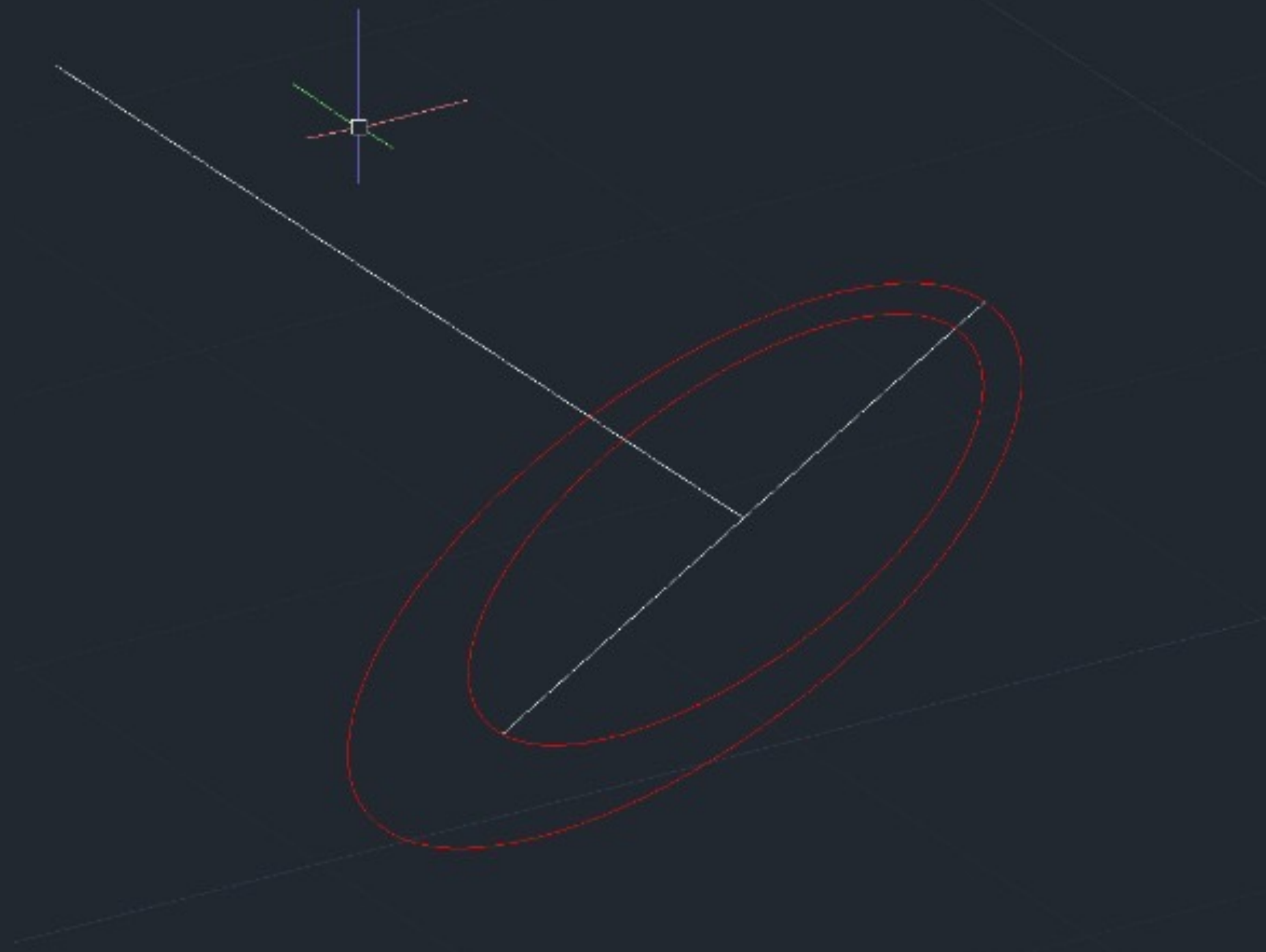


# Exerc. 2.2 – Superfícies de Revolução

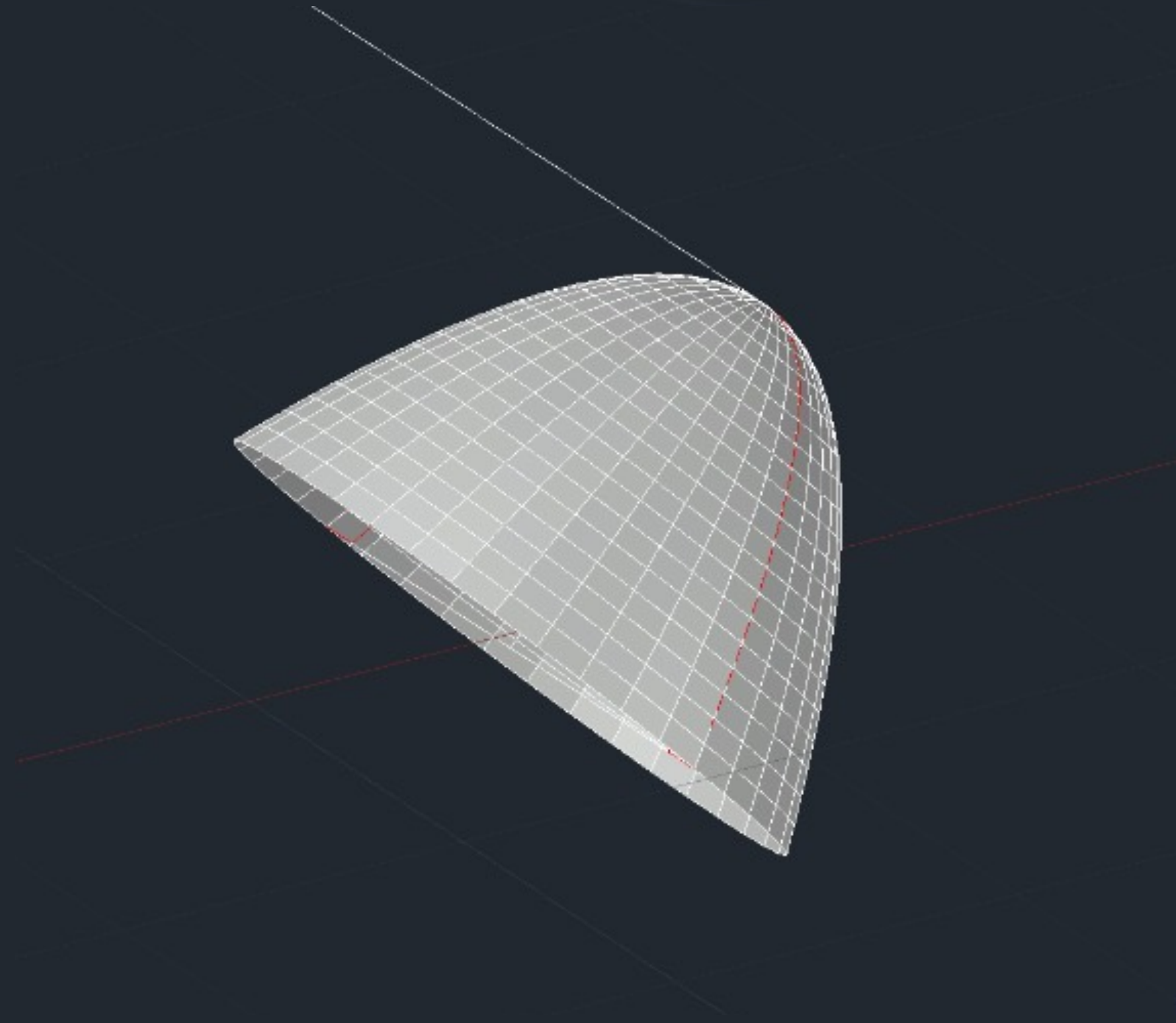




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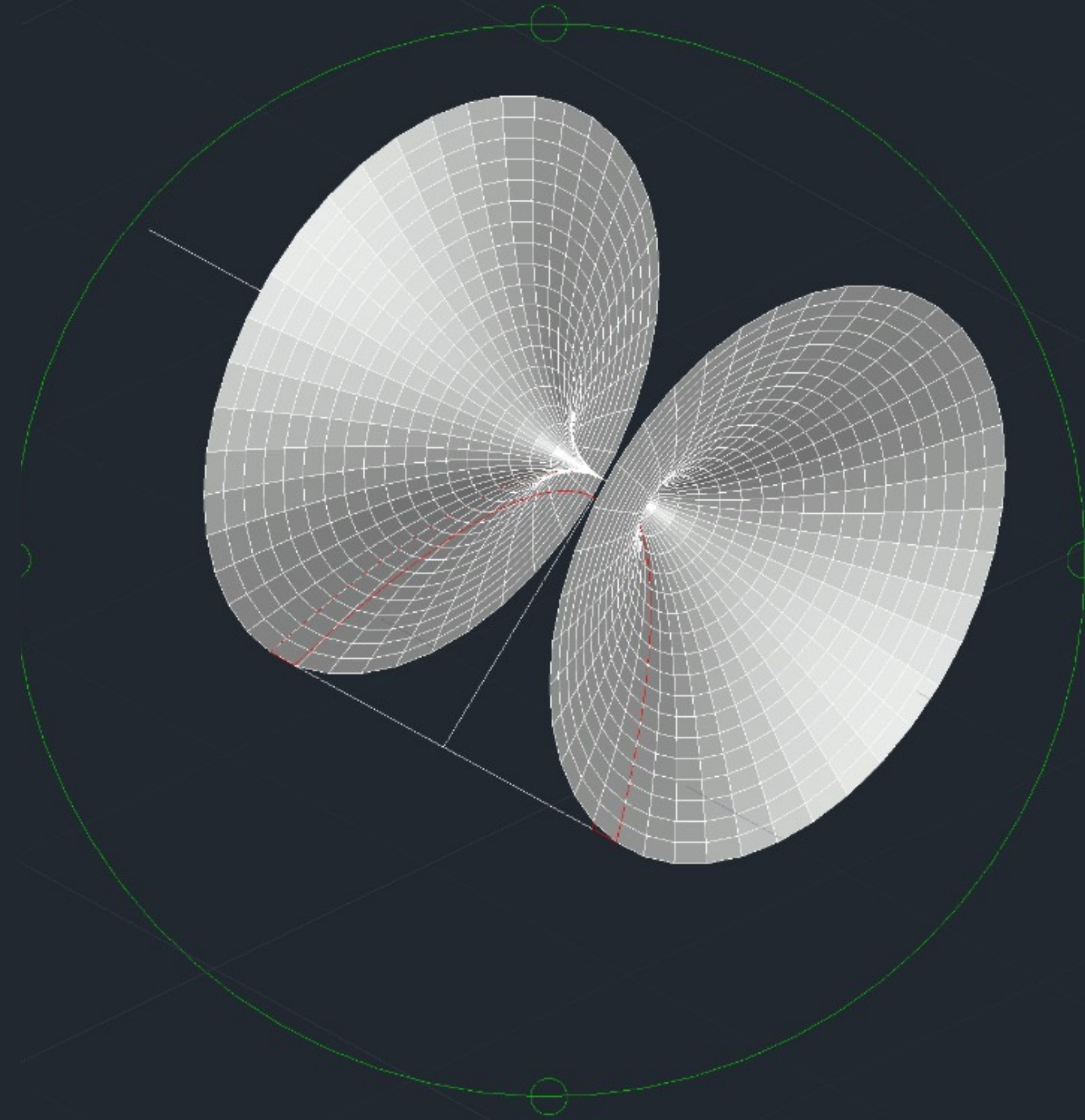


# Exerc. 2.2 – Superfícies de Revolução



Exerc. 2.2 – Superfícies de Revolução



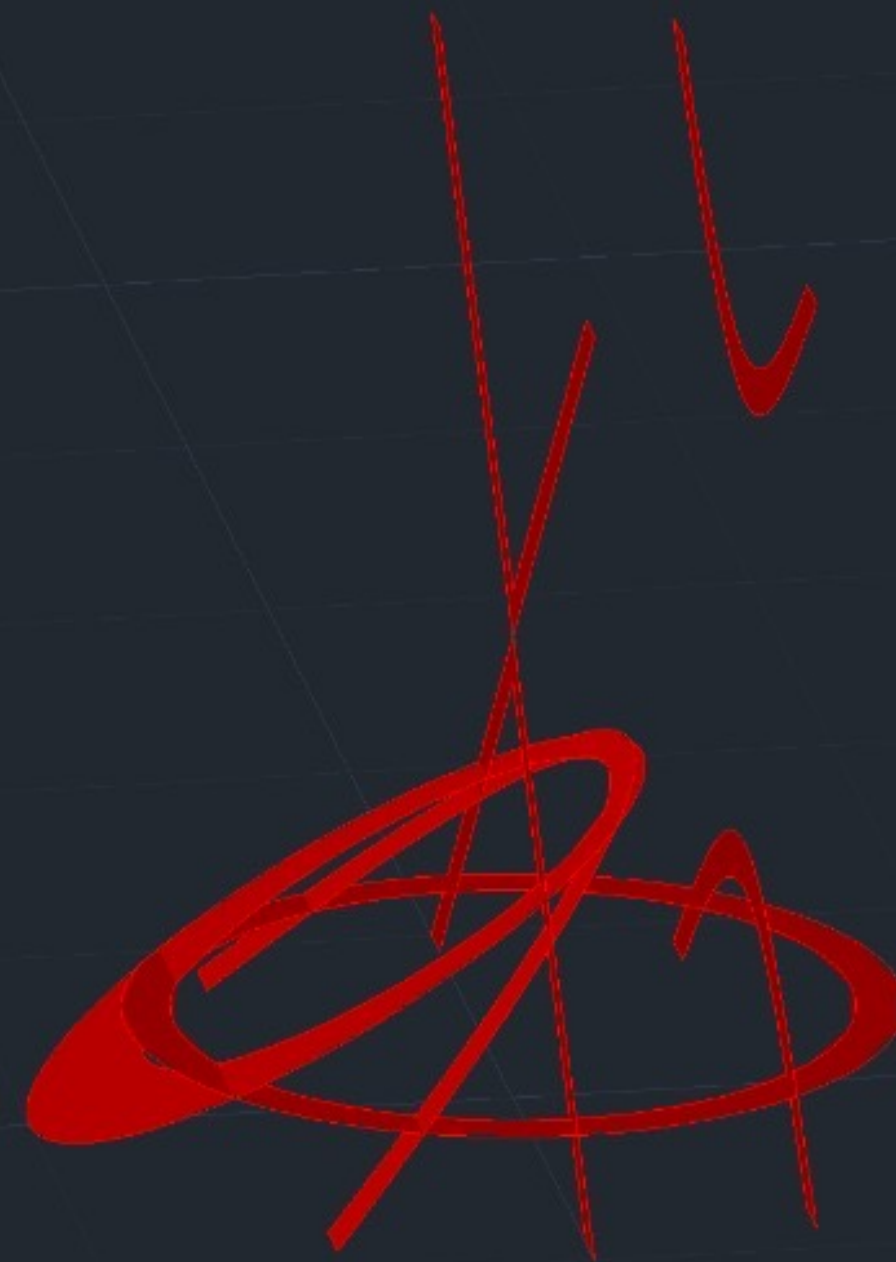


Exerc. 2.2–Superfícies de Revolução

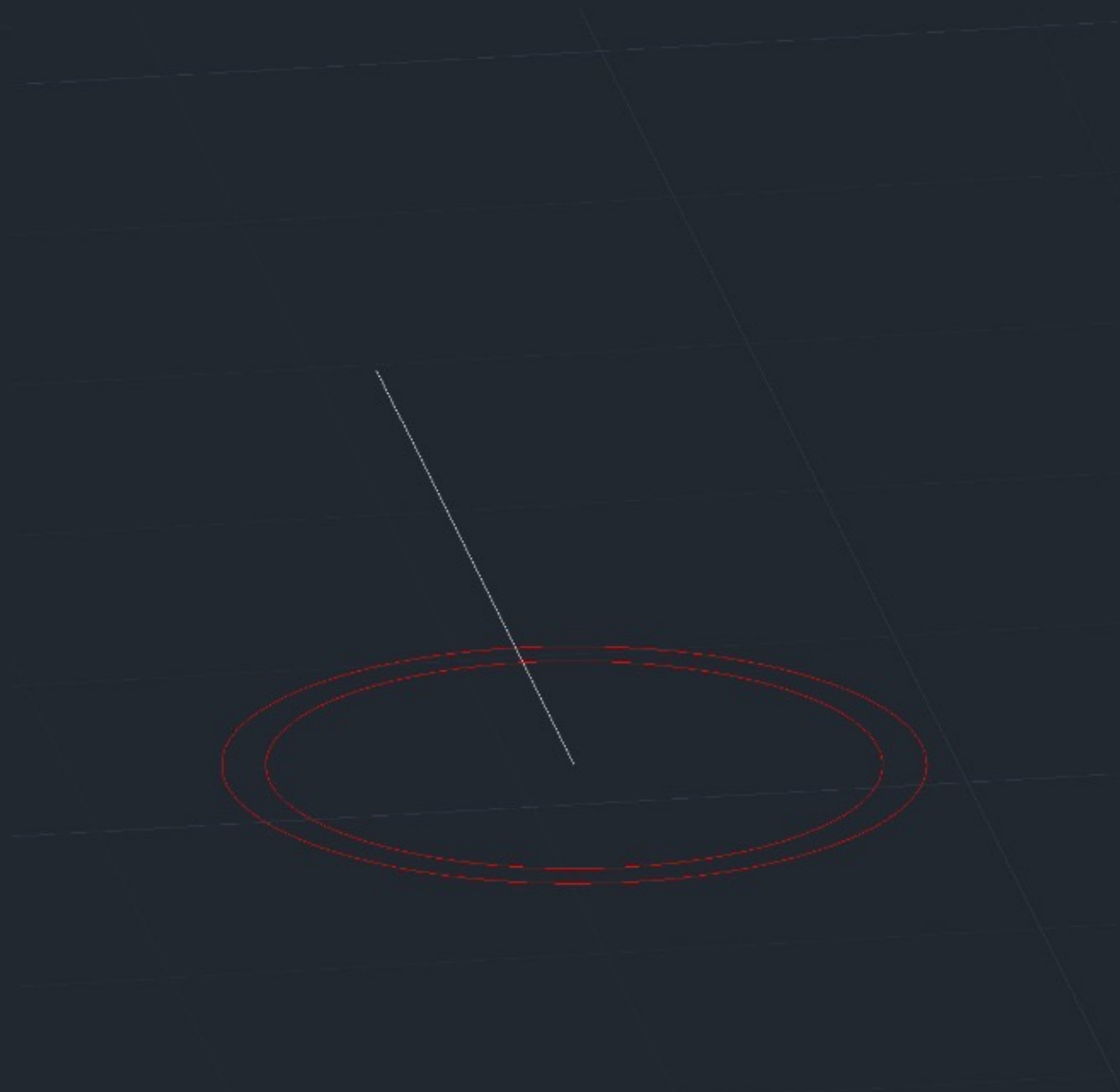




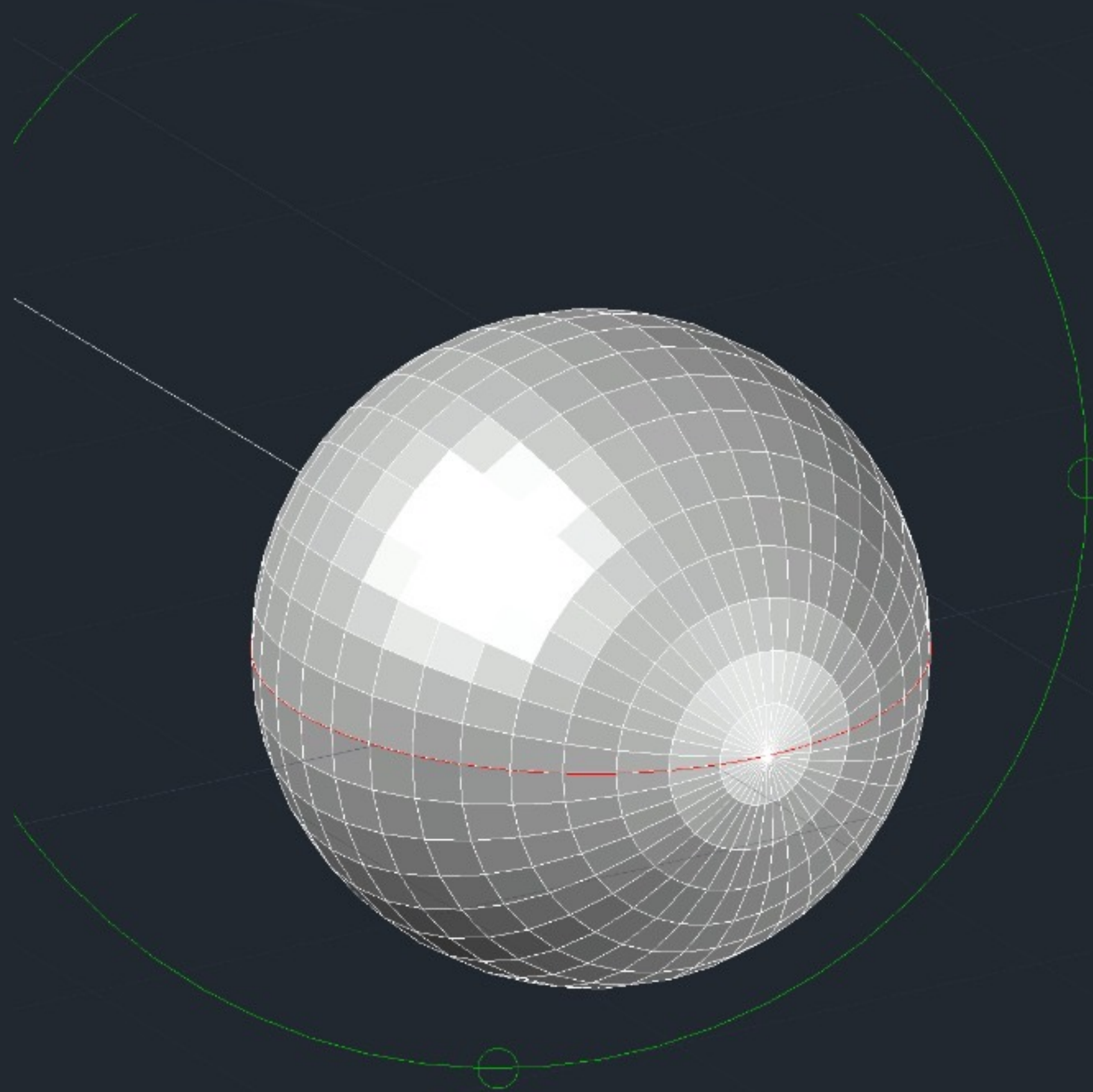
Exerc. 2.2 – Superfícies de Revolução



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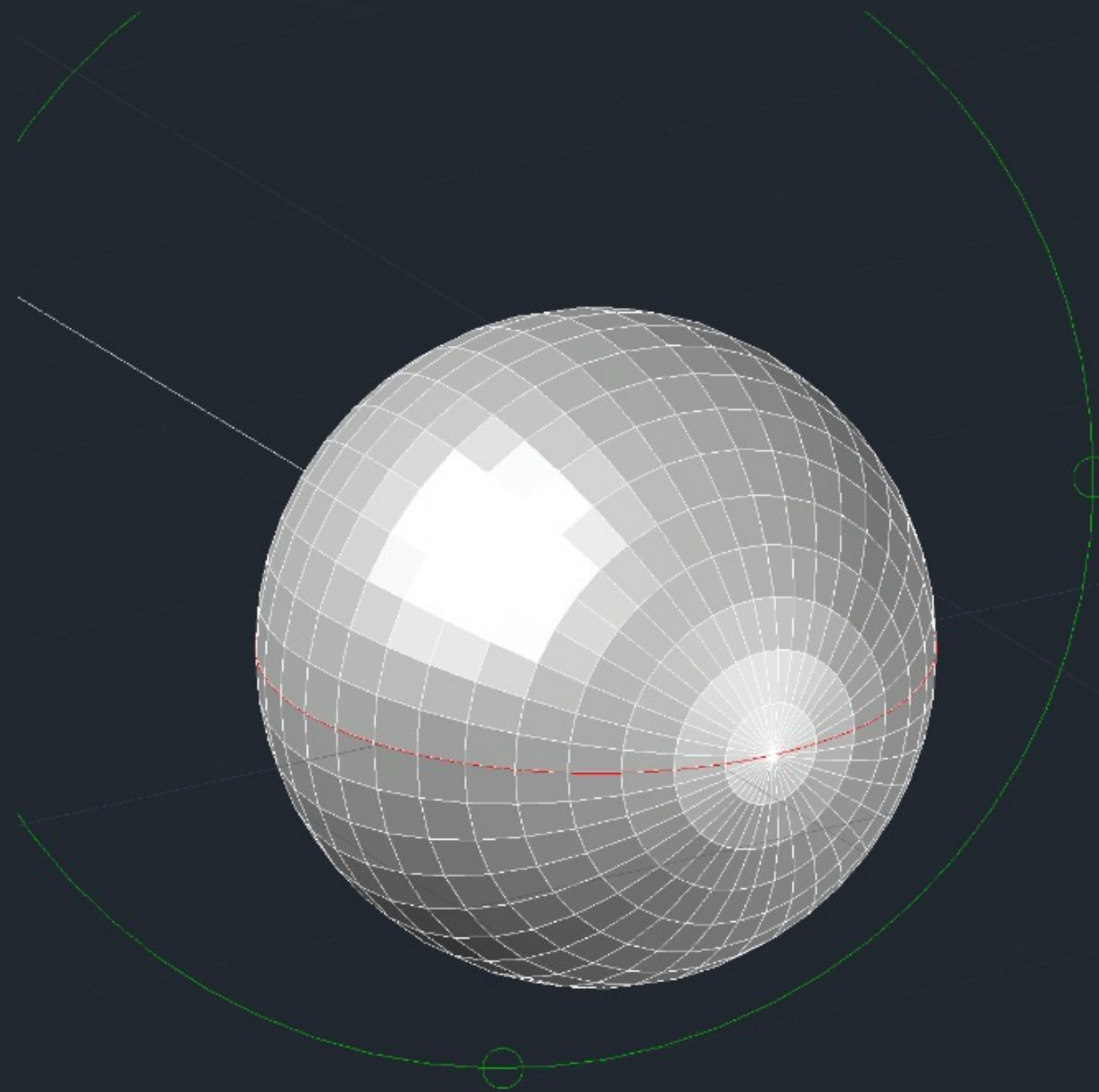


# Exerc. 2.2 – Superfícies de Revolução

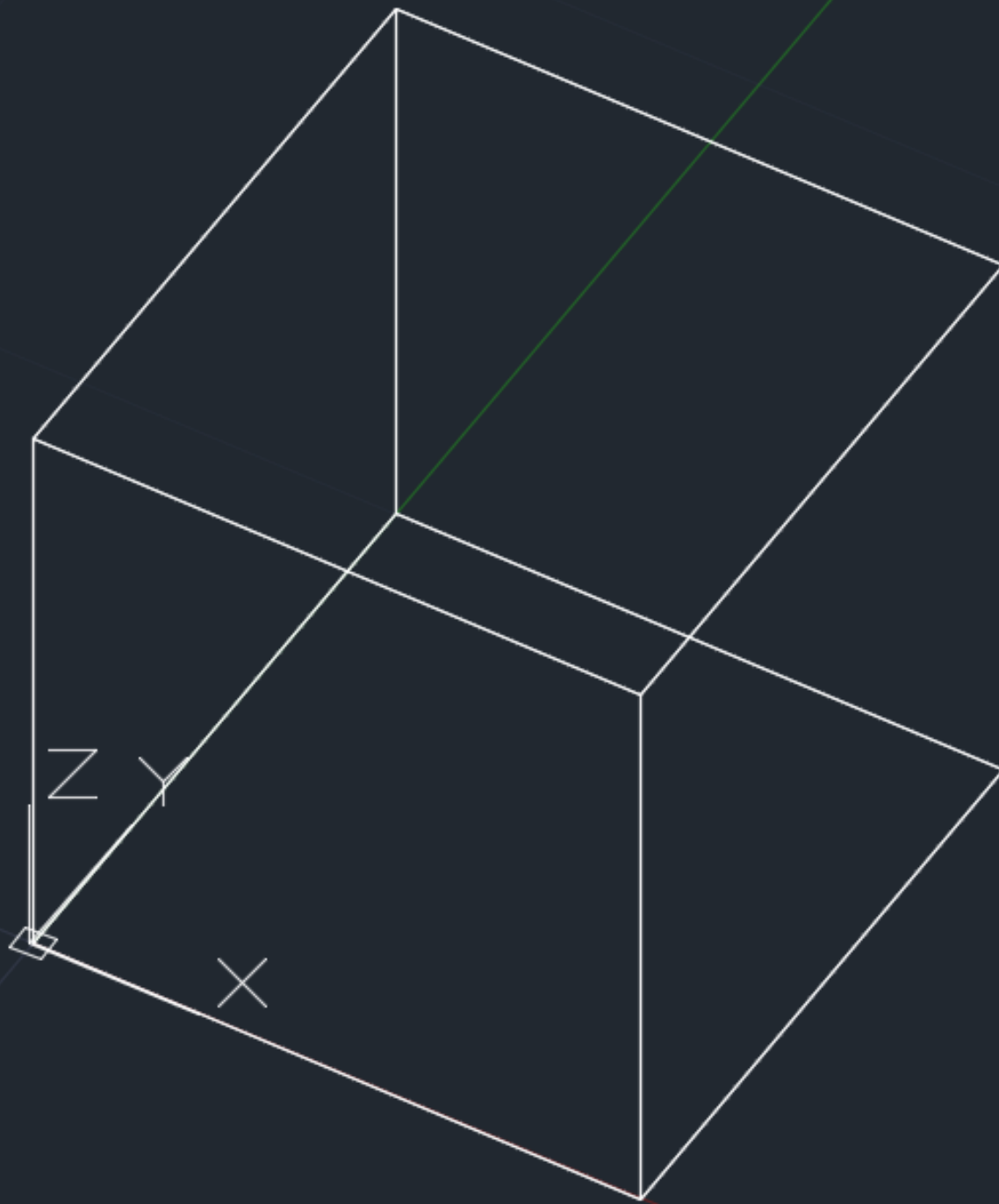


# Exerc. 2.2 – Superfícies de Revolução



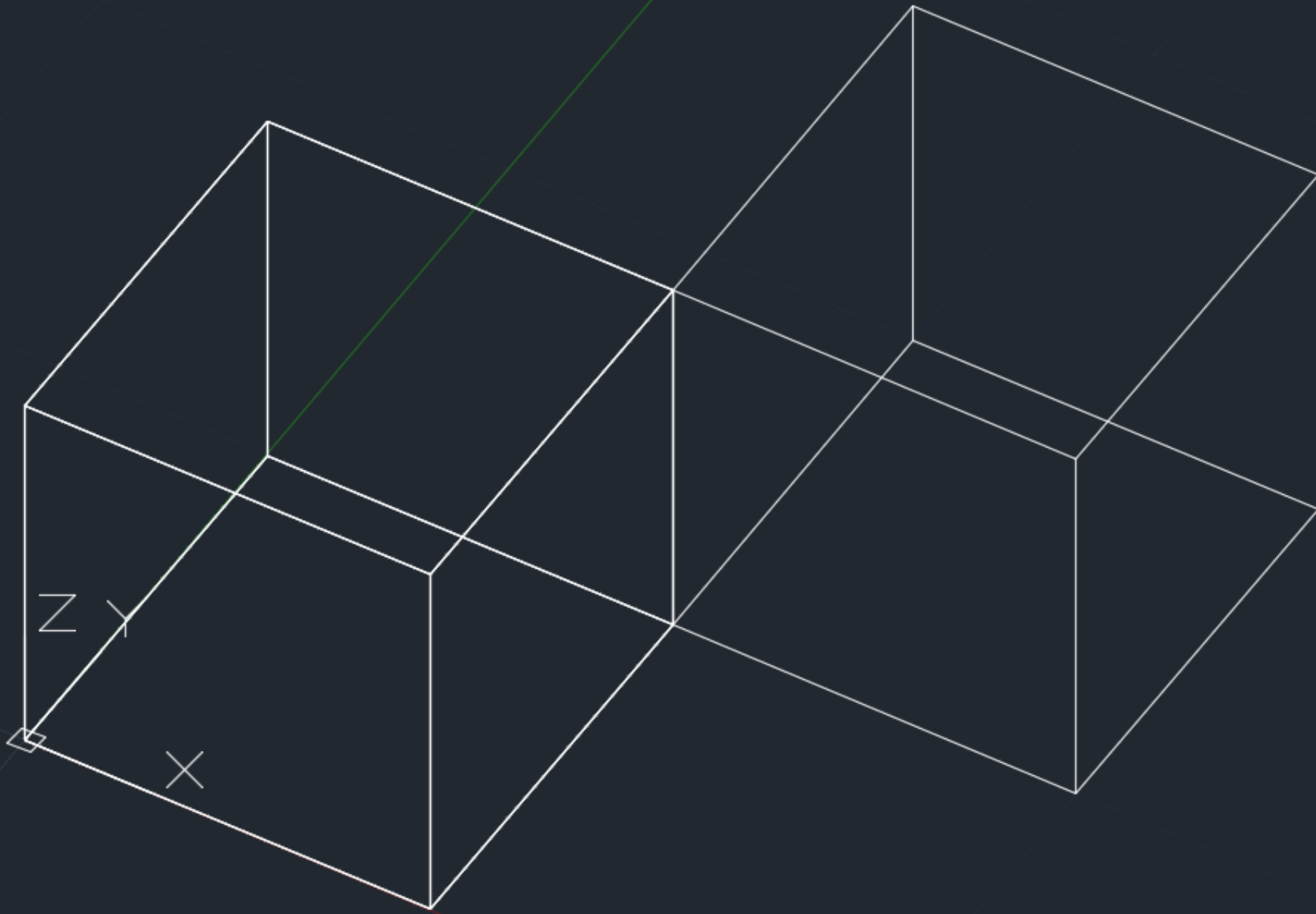


Exerc. 2.2 – Superfícies de Revolução



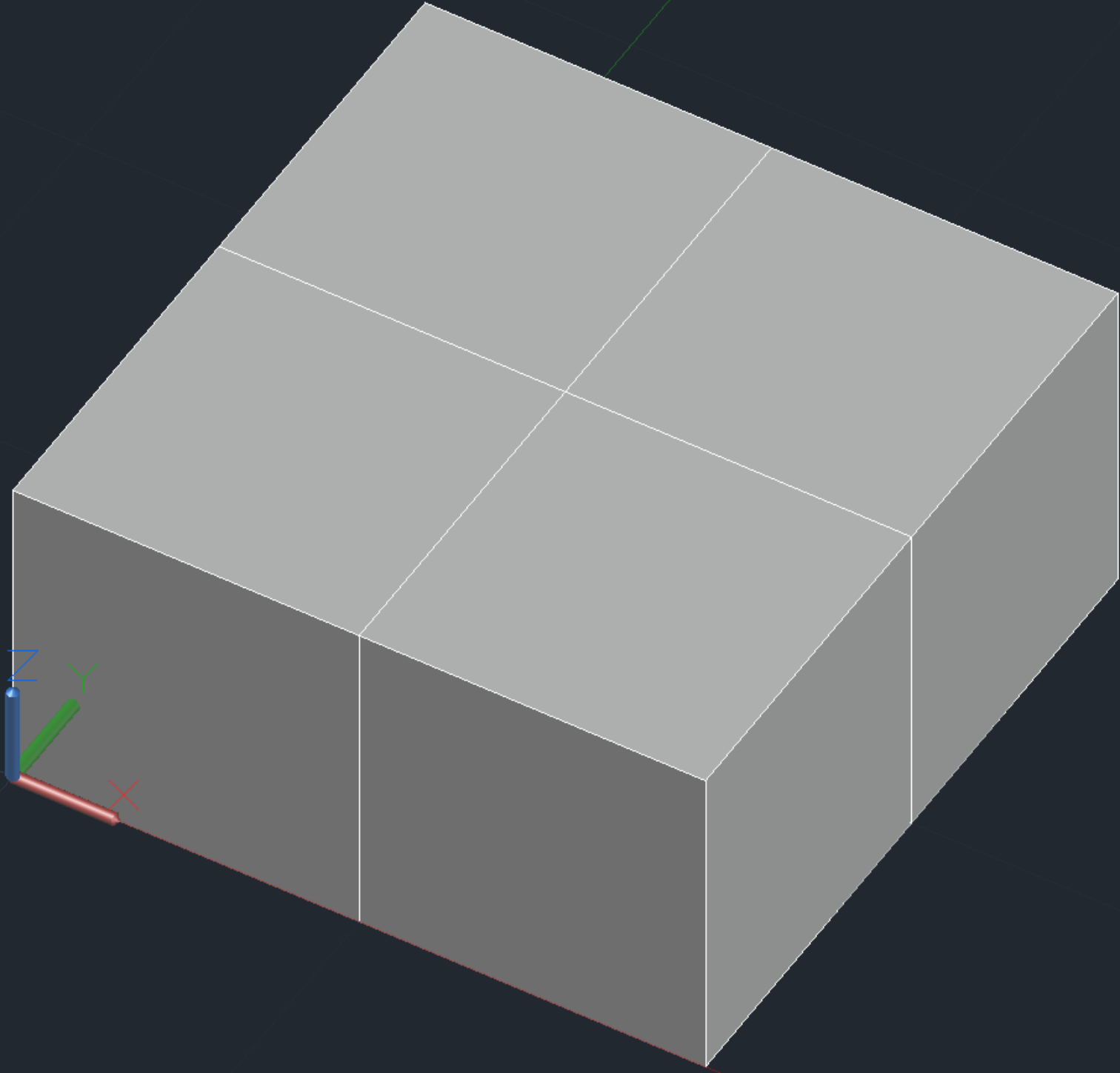
```
1 (Defun c:Xad ()  
2 (command "box" "0,0,0" "10,10,10")  
3 )  
4
```

# Exerc. 3 – AutoLisp – Xadrez



```
1 (Defun c:Xadrez ()  
2 (command "box" "0,0,0" "10,10,10")  
3 (command "copy" "last" "" "0,0,0" "10,10")  
4 )
```

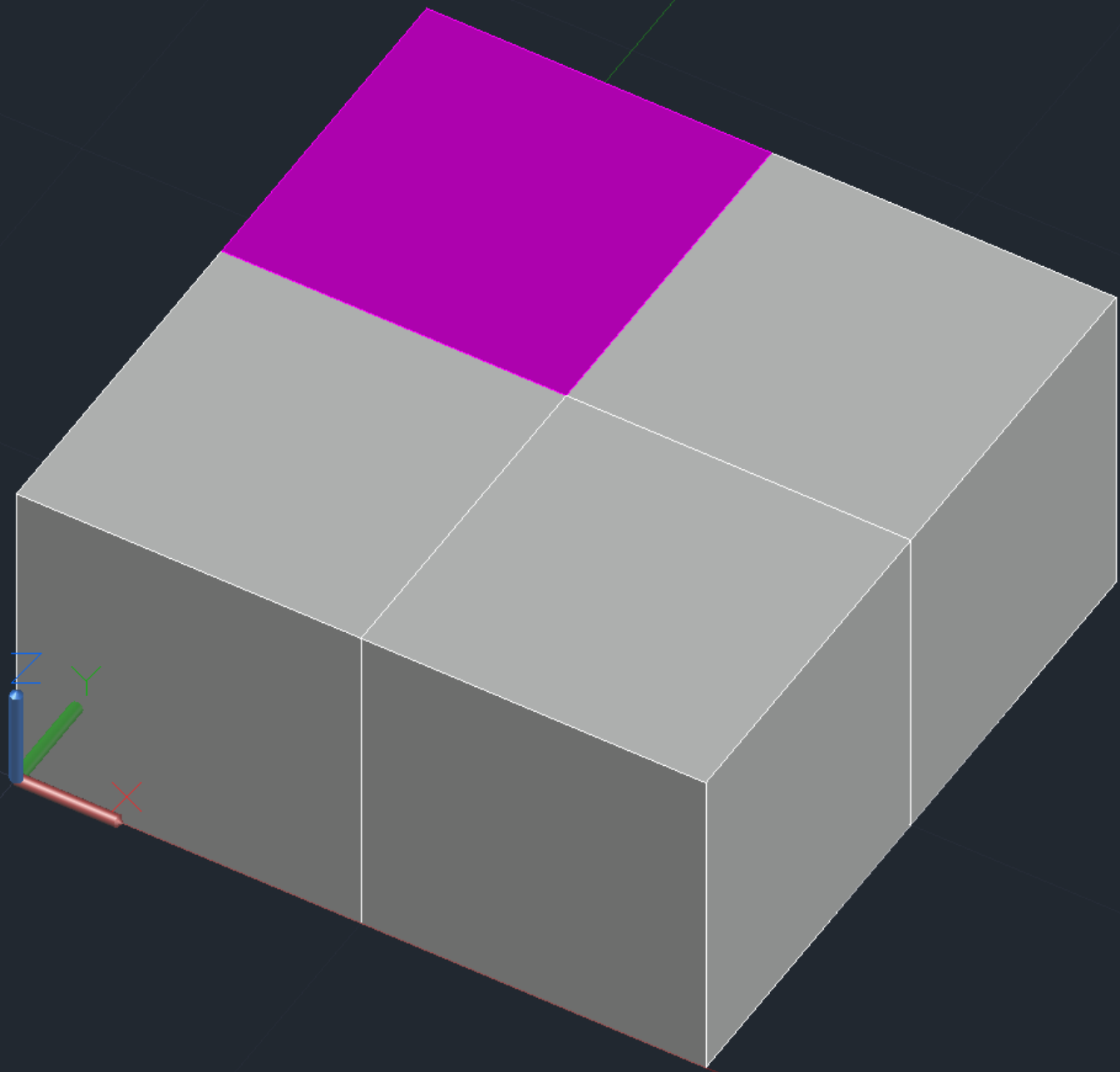
# Exerc. 3 – AutoLisp – Xadrez



```
1 (Defun c:Xadrez ()  
2 (command "box" "0,0,0" "10,10,10")  
3 (command "copy" "last" "" "0,0,0" "10,10")  
4 (command "mirror" "all" "" "10,0" "10,10" "n")  
5 )
```

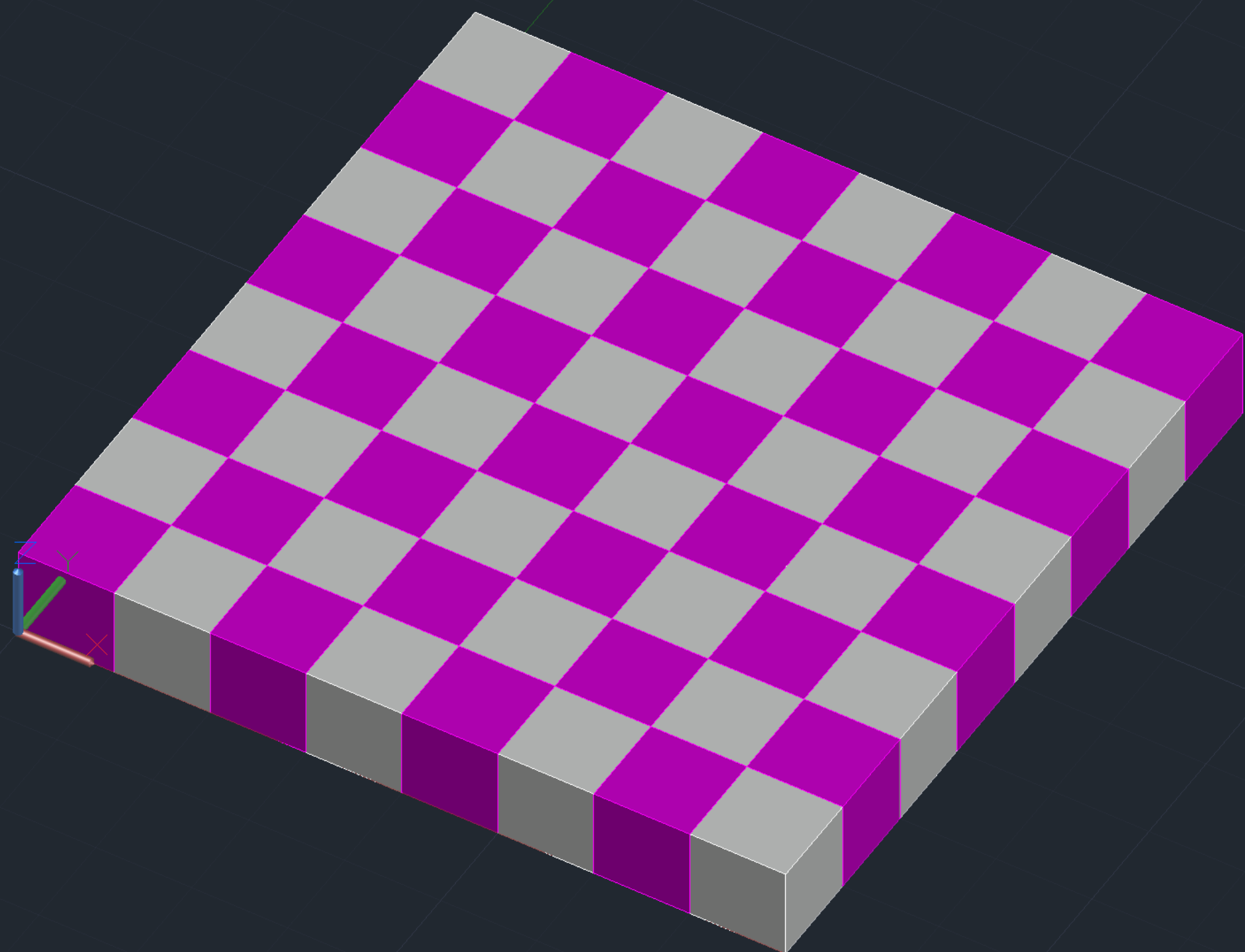
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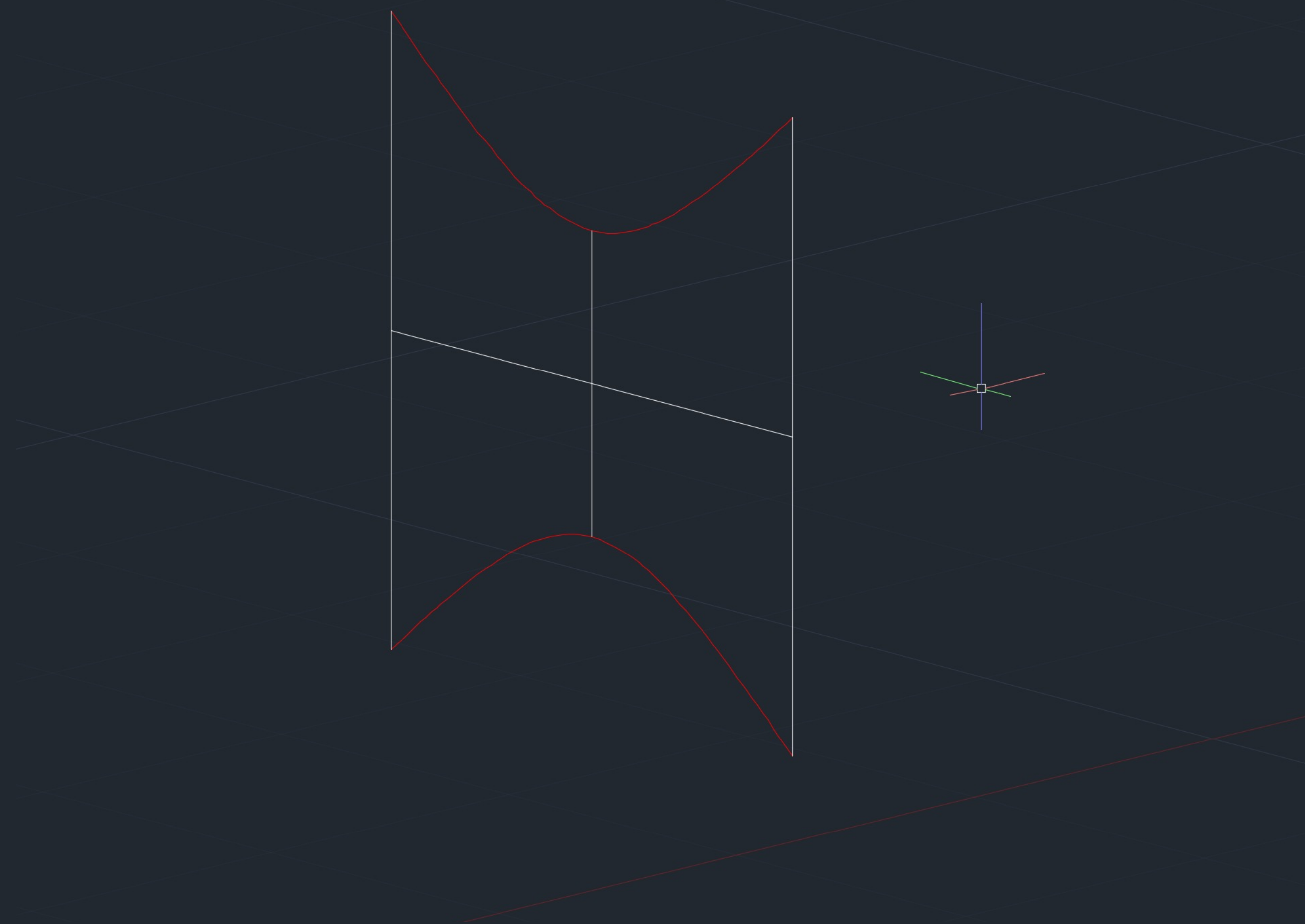
```
1 (Defun c:Xadrez ()  
2 (command "box" "0,0,0" "10,10,10")  
3 (command "copy" "last" "" "0,0,0" "10,10")  
4 (command "mirror" "all" "" "10,0" "10,10" "n")  
5 (command "chprop" "last" "" "c" "6" "")  
6 )
```

# Exerc. 3 – AutoLisp – Xadrez

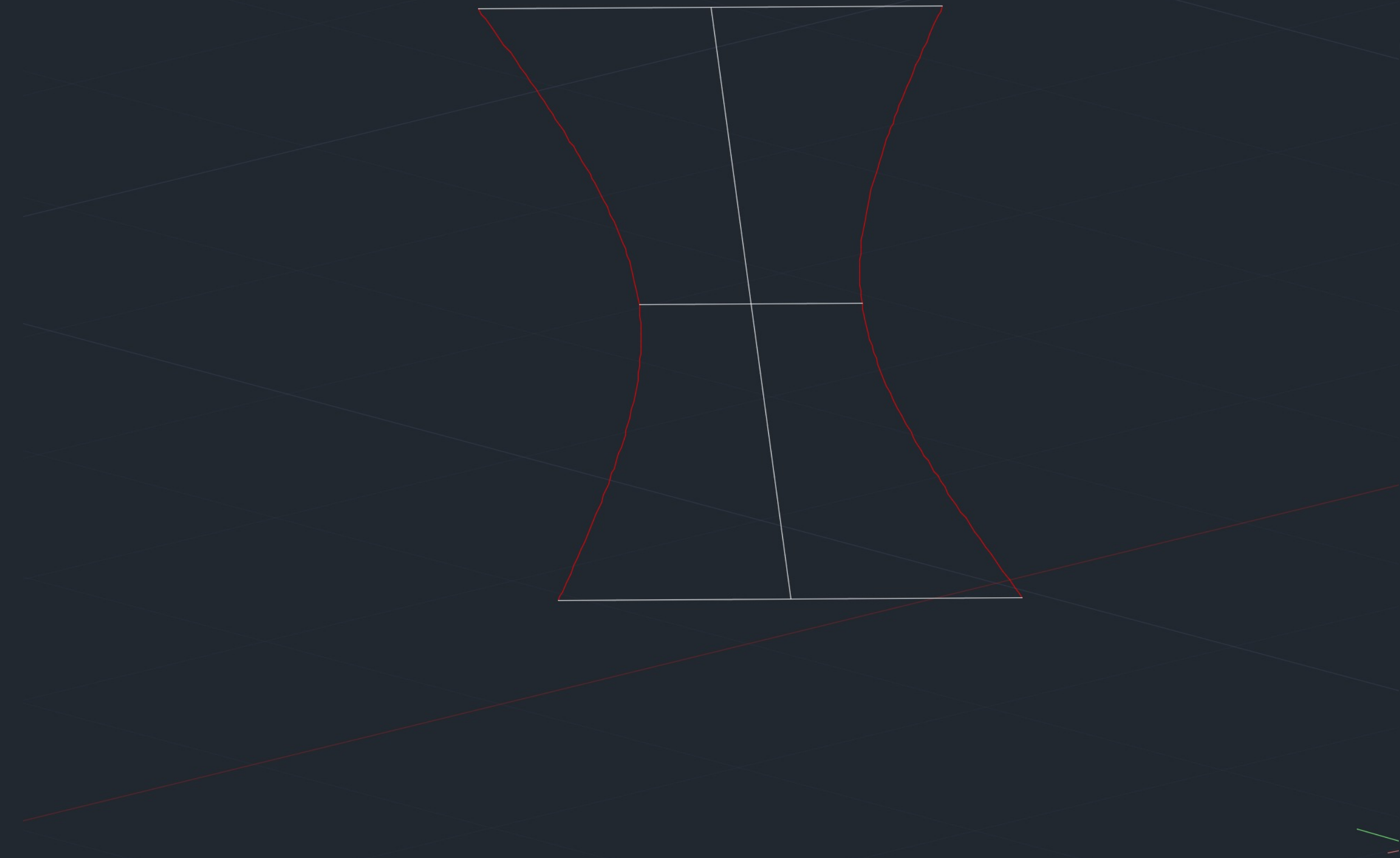


```
1 (Defun c:Xadrez ()  
2 (command "box" "0,0,0" "10,10,10")  
3 (command "copy" "last" "" "0,0,0" "10,10")  
4 (command "mirror" "all" "" "10,0" "10,10" "n")  
5 (command "chprop" "previous" "" "c" "6" "")  
6 (command "array" "all" "" "R" "4" "4" "20" "20")  
7 )  
8
```

# Exerc. 3 – AutoLisp – Xadrez

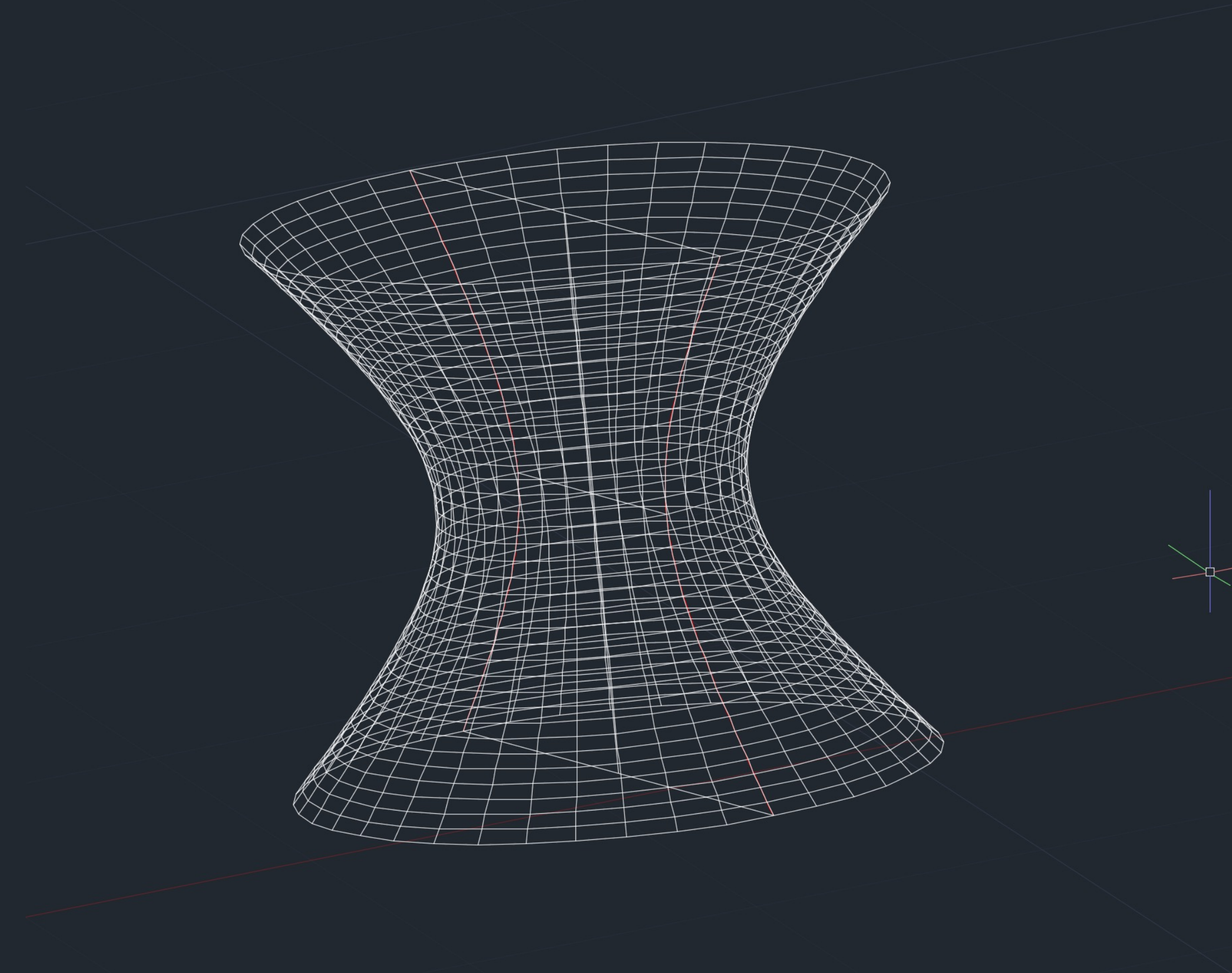


# Exerc. 4.1 – Parabolóide Hiperbólico

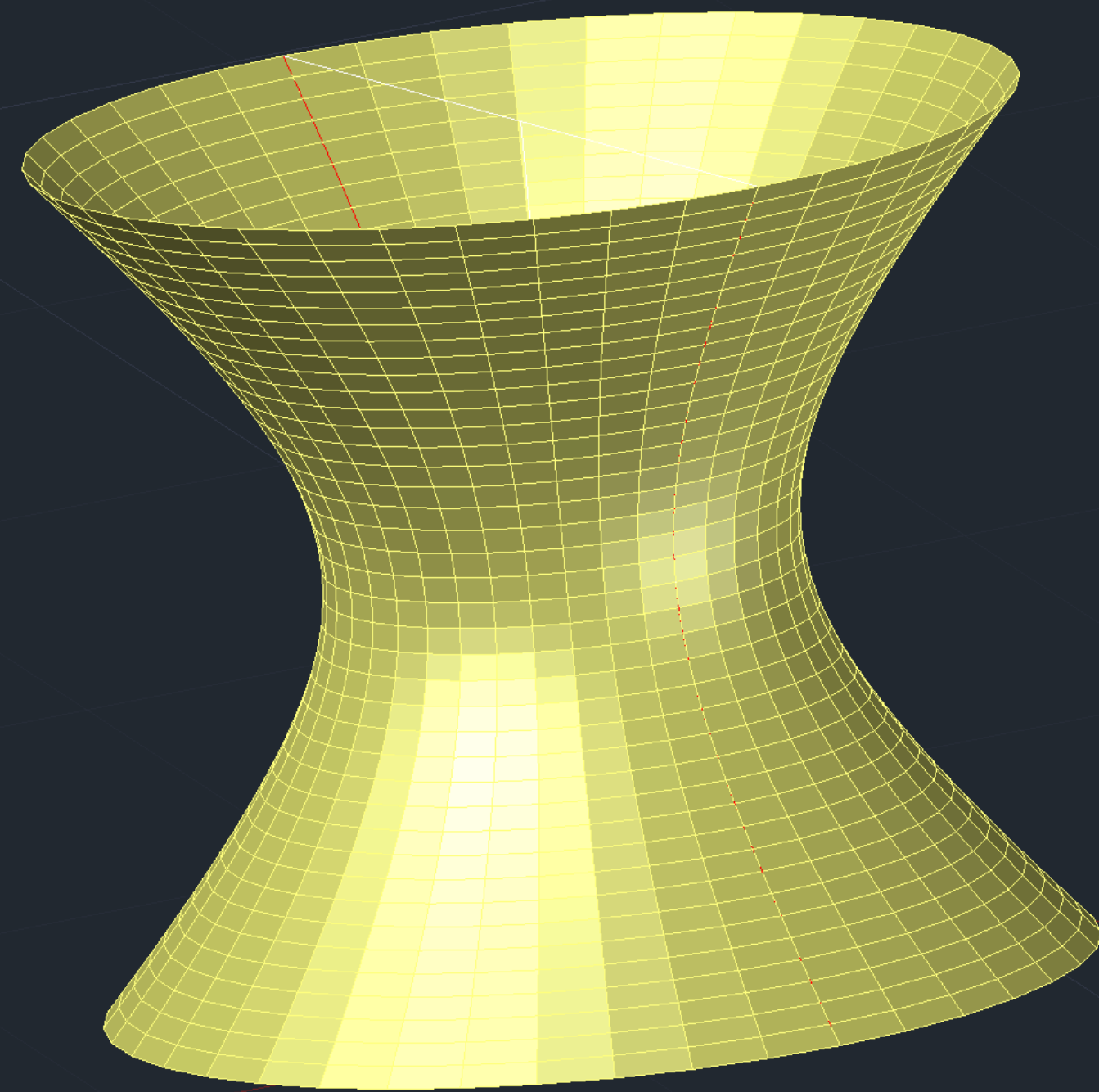


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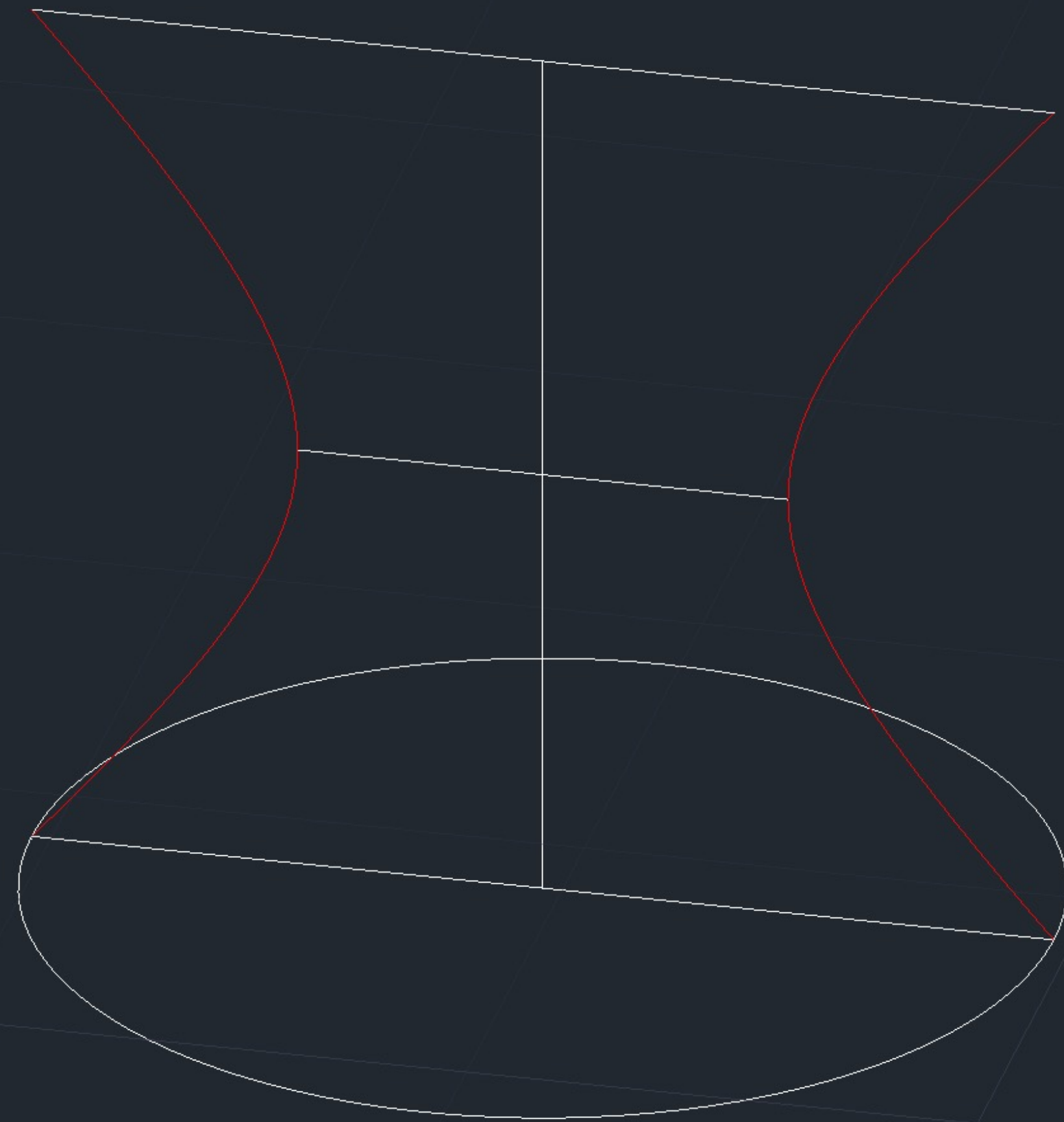




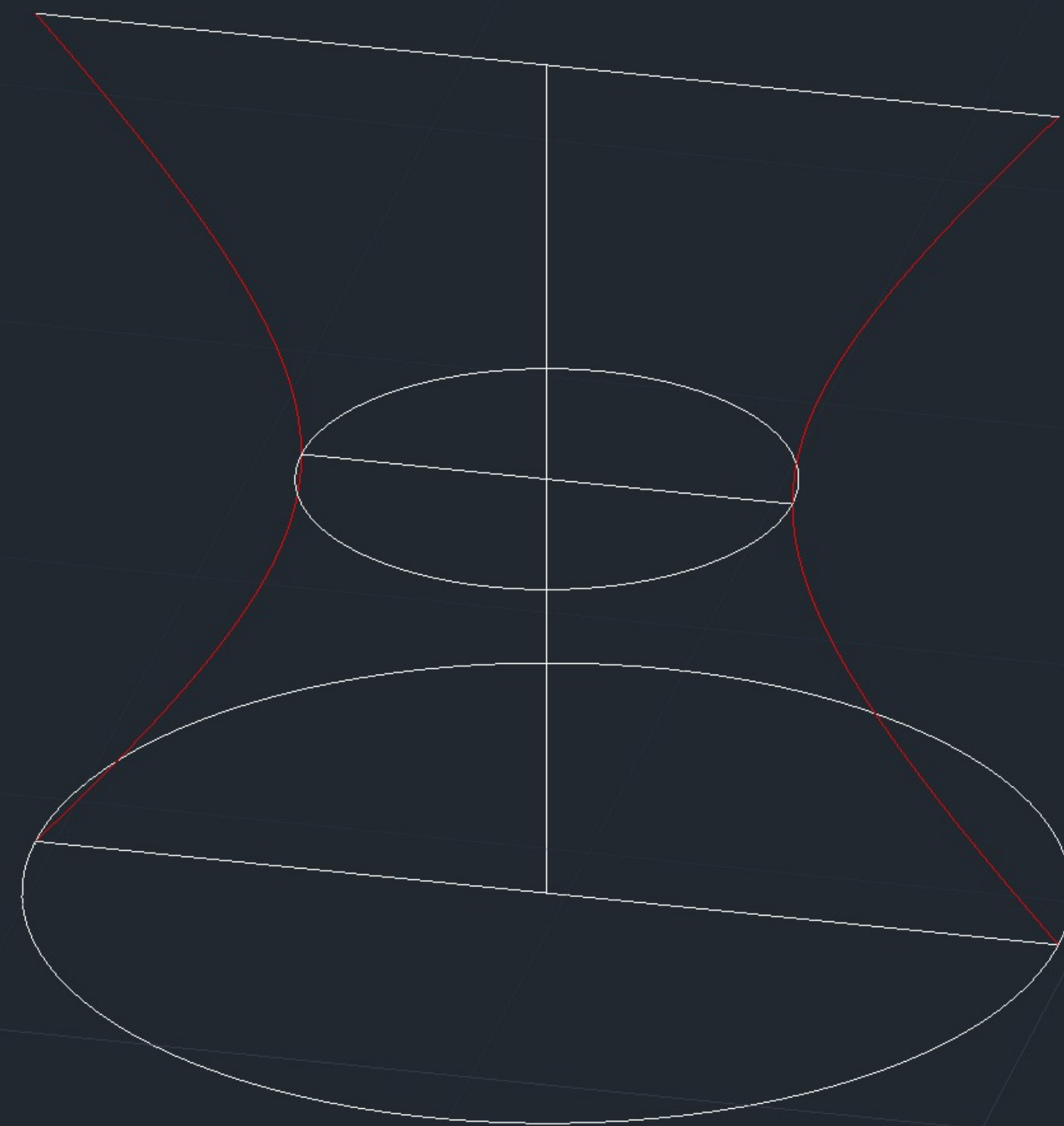
Exerc. 4.1 – Parabolóide Hiperbólico



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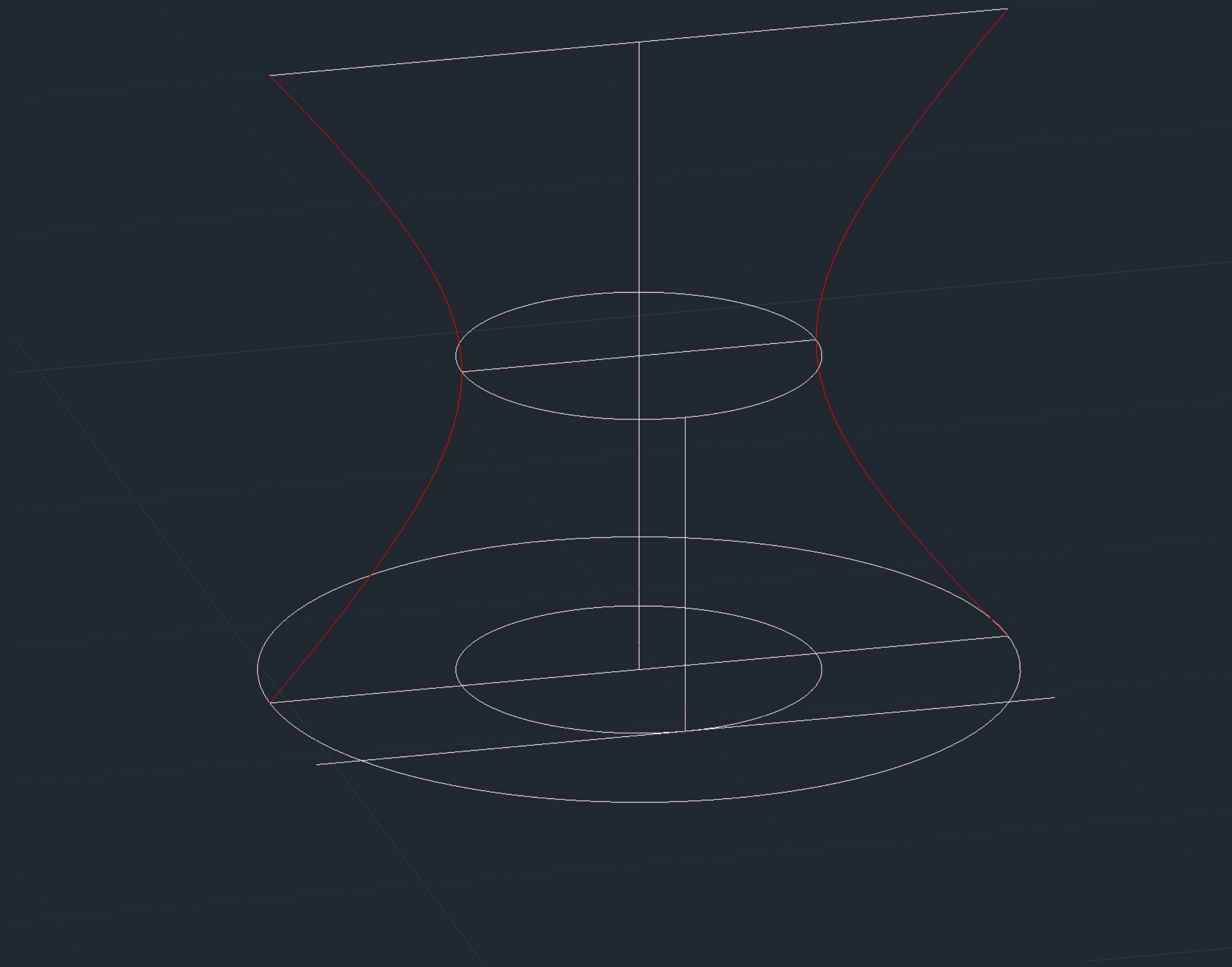


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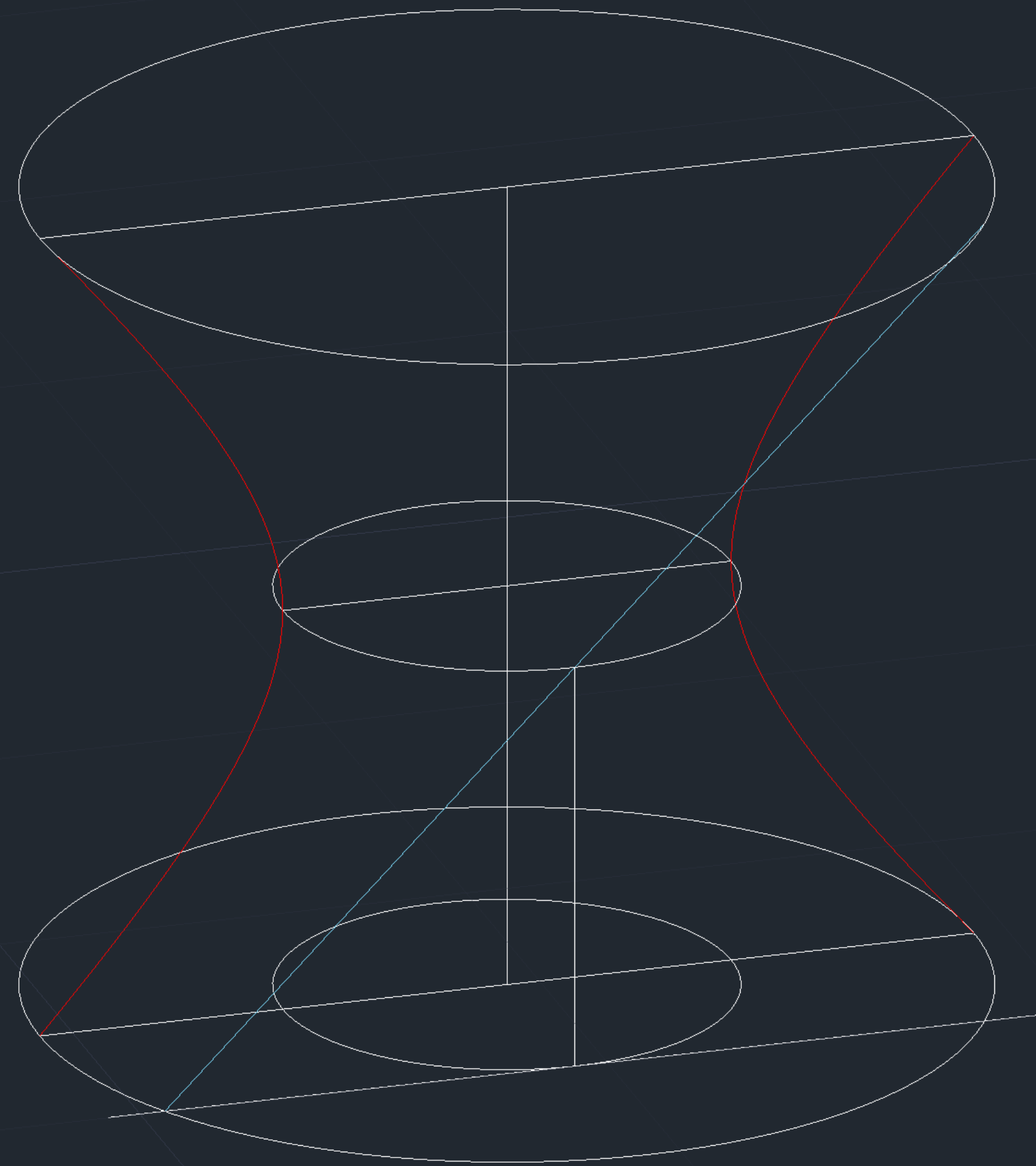


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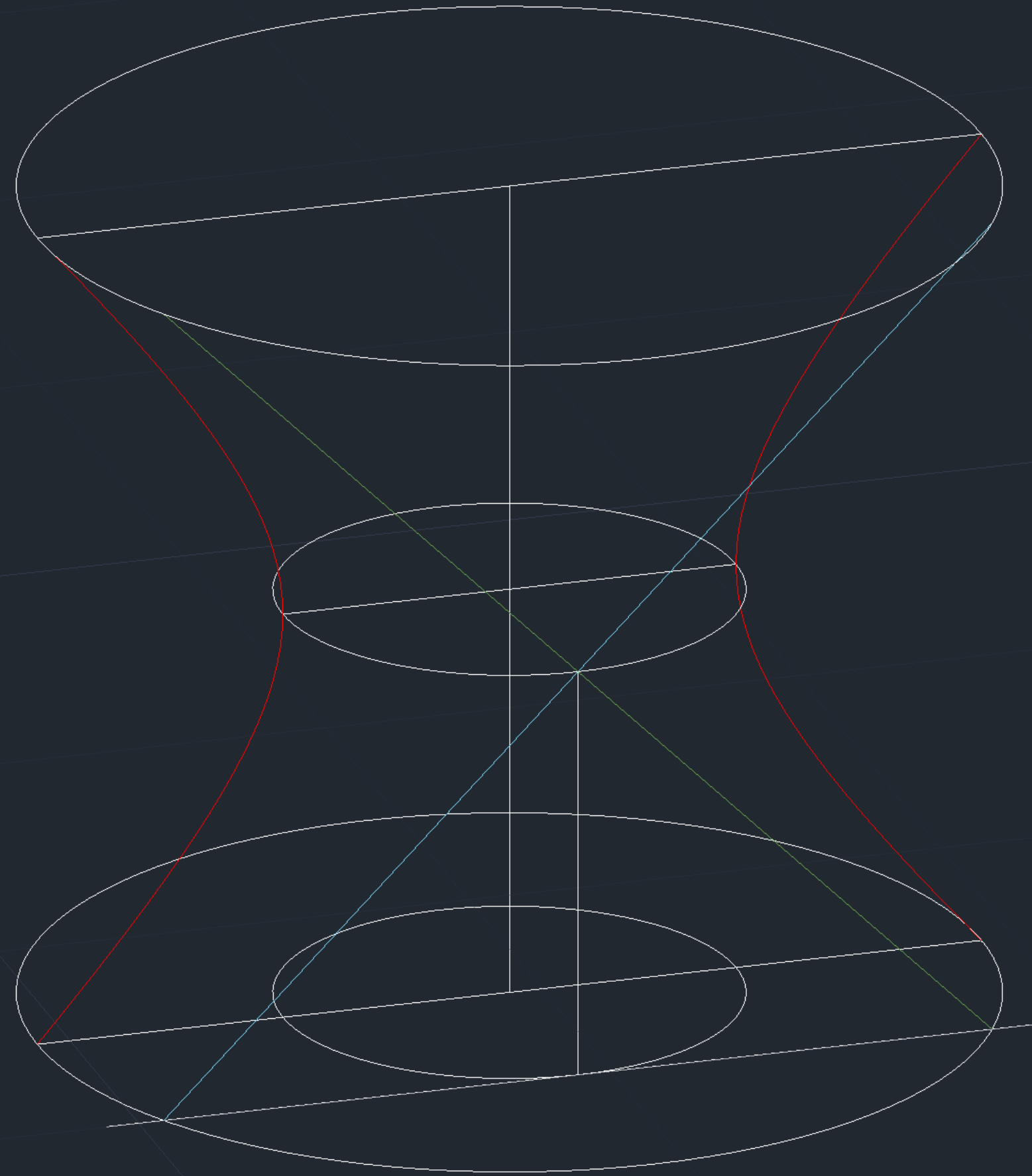




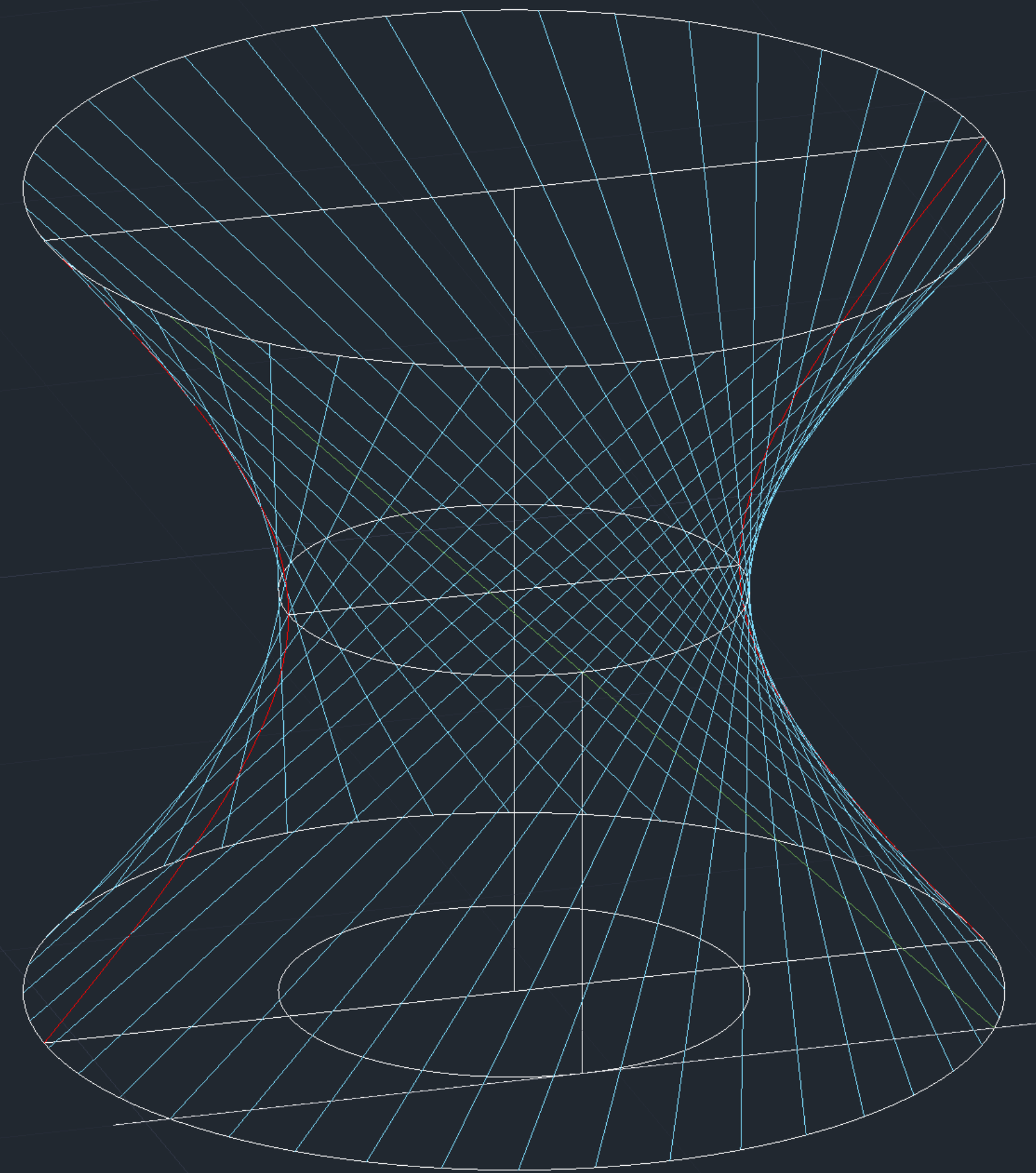
# Exerc. 4.1 – Parabolóide Hiperbólico



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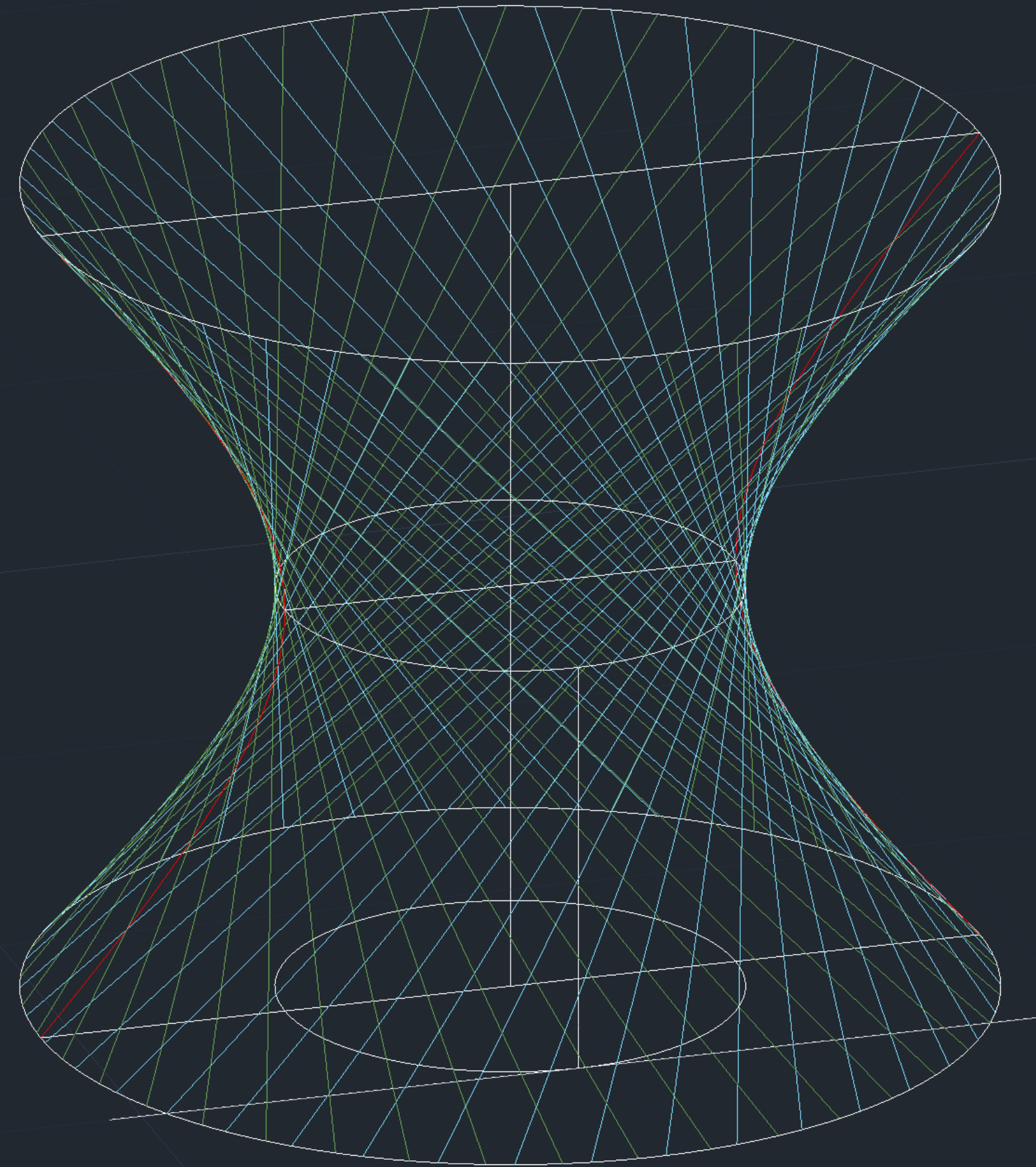


Exerc. 4.1 – Parabolóide Hiperbólico

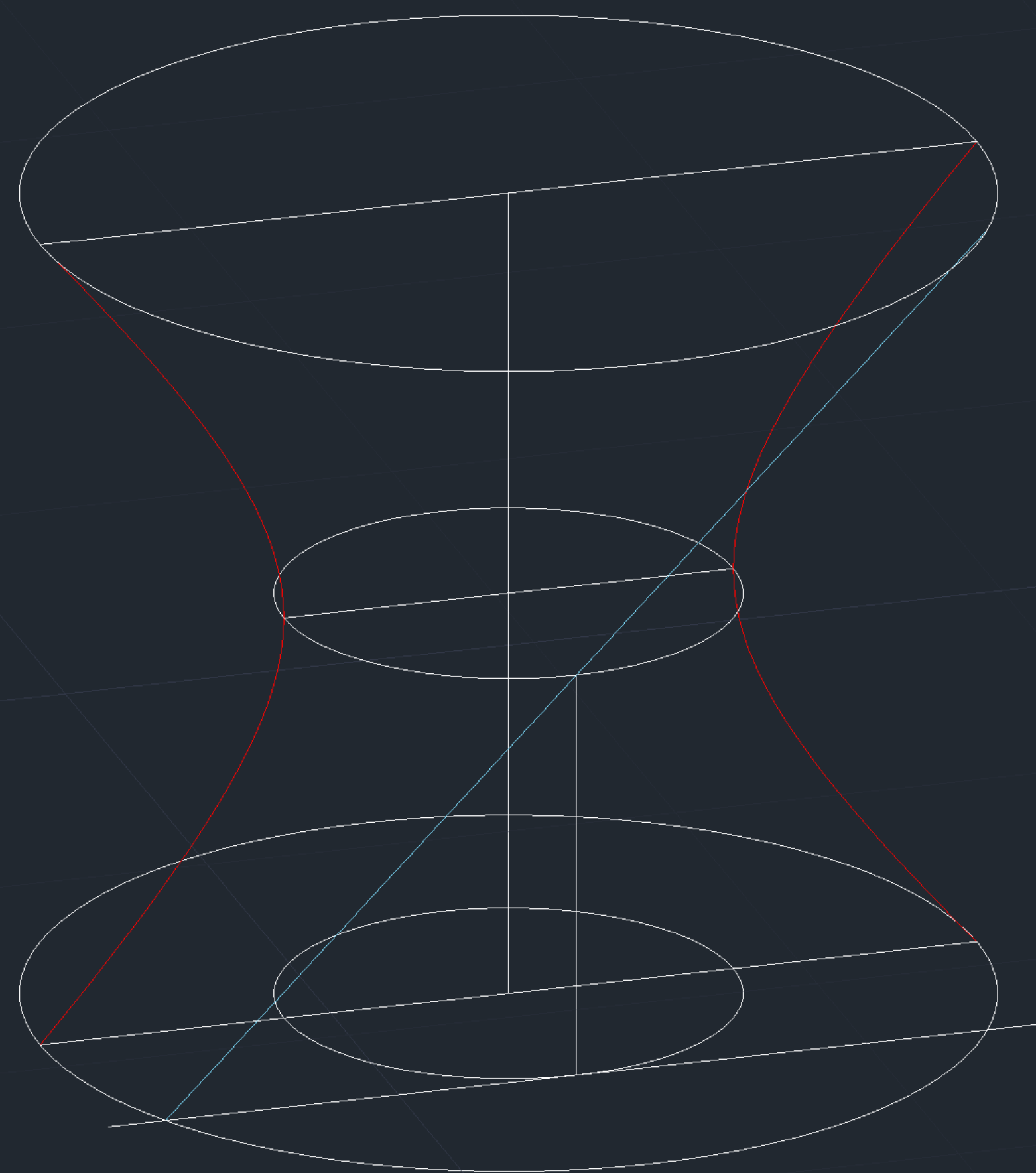


Exerc. 4.1 – Parabolóide Hiperbólico

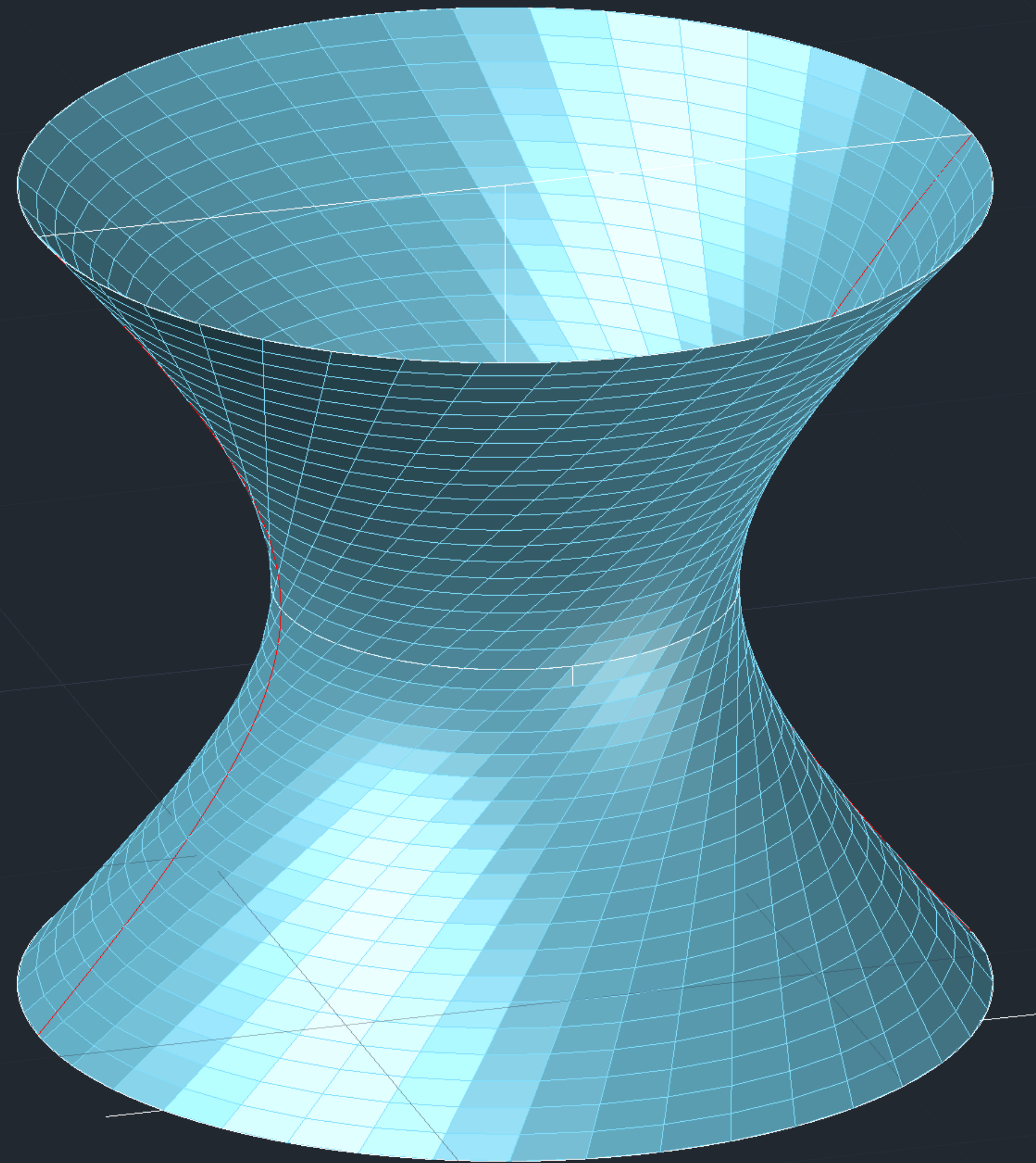




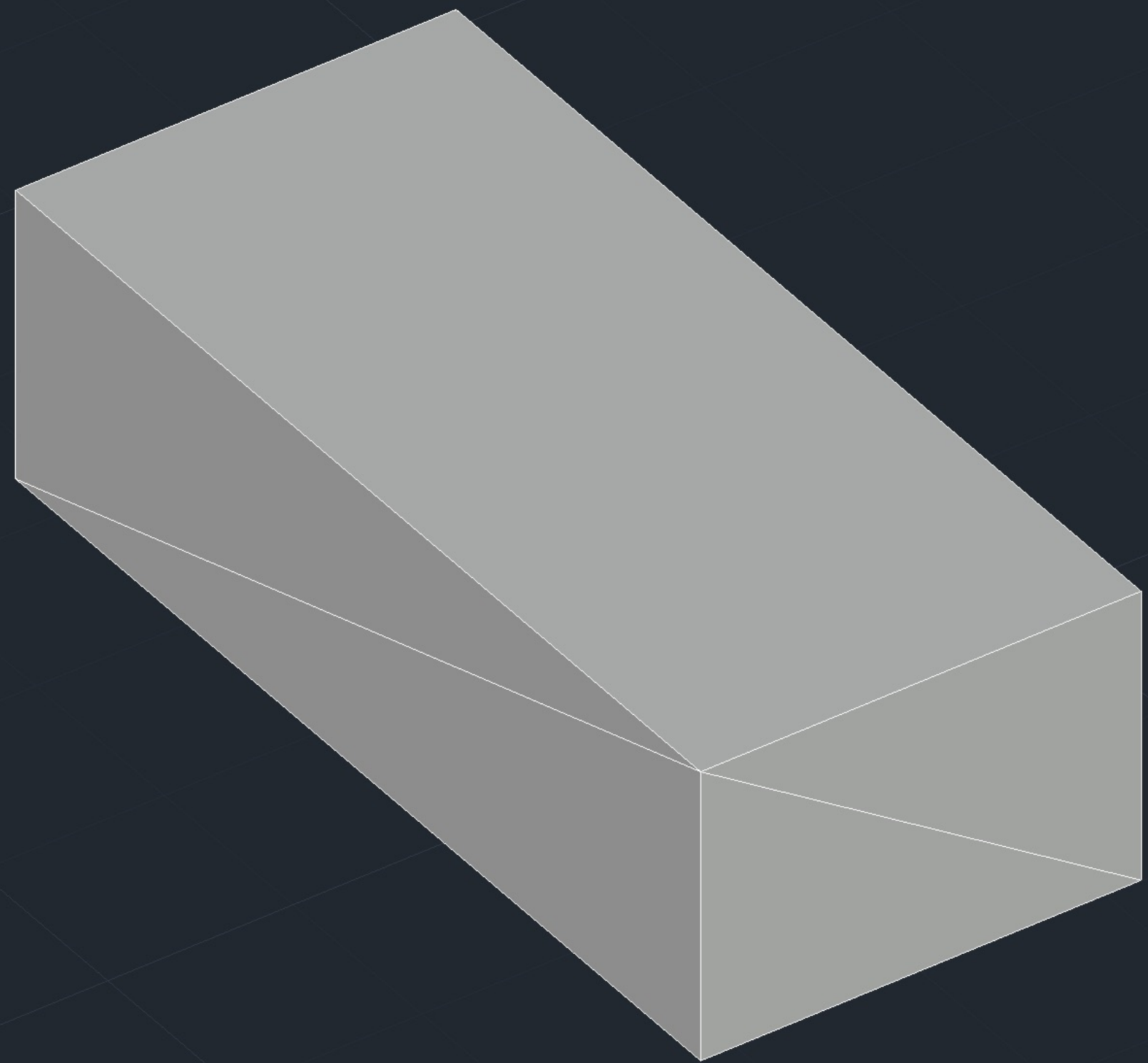
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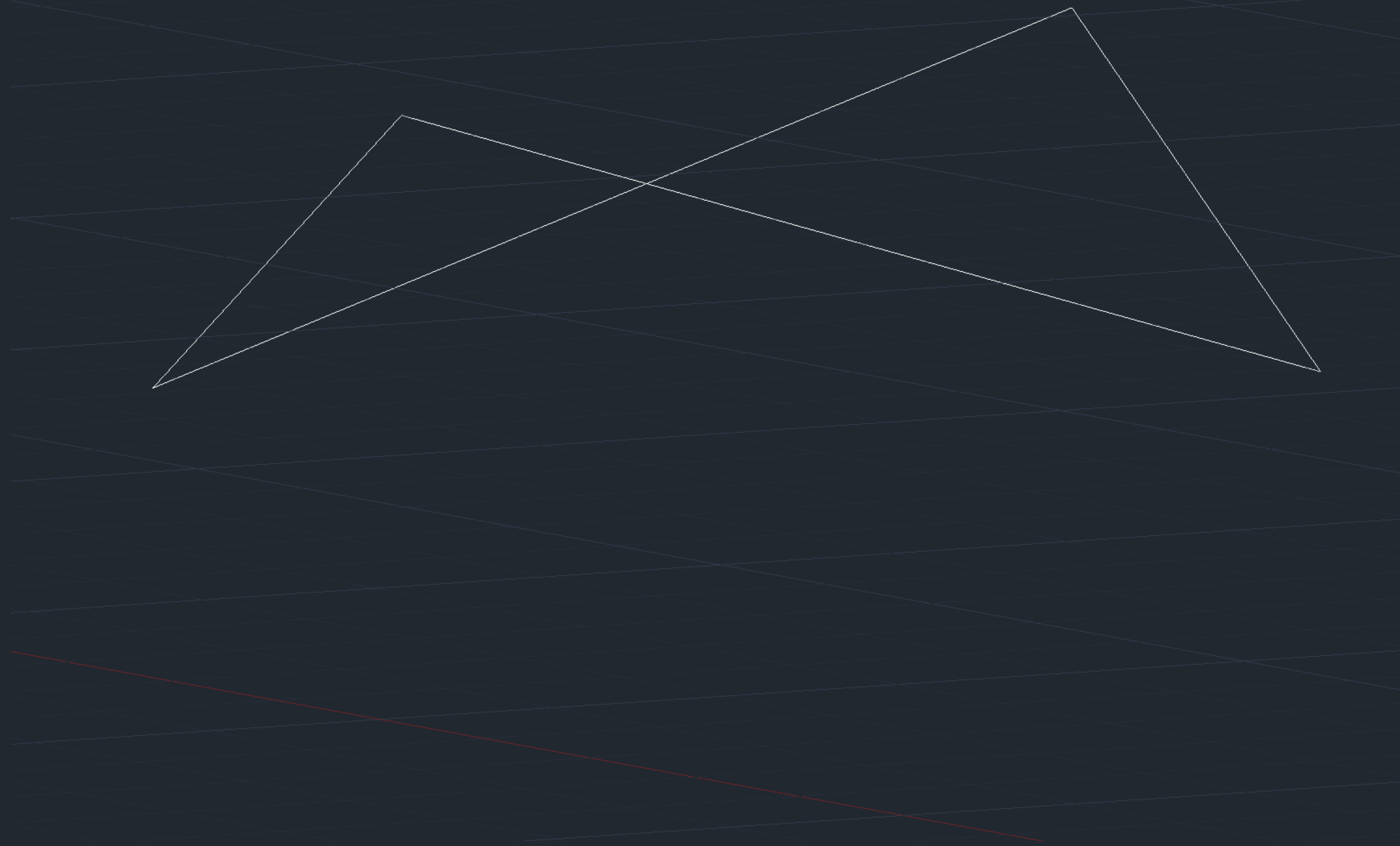


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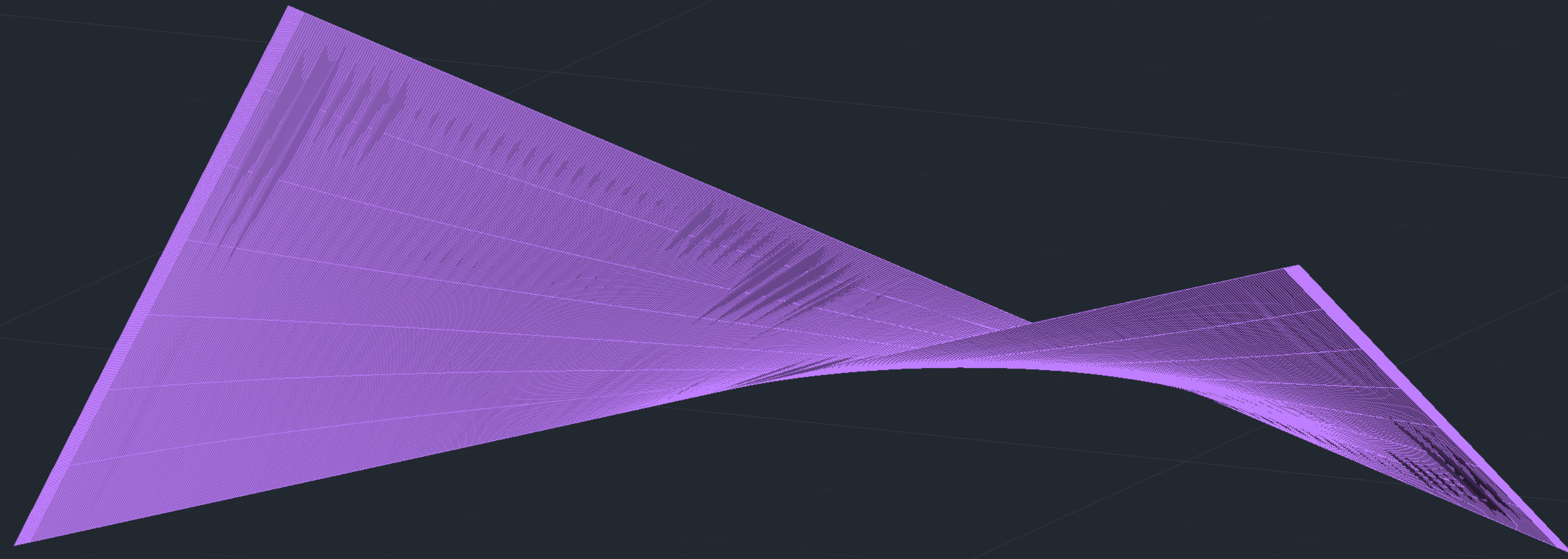


Exerc. 4.2 – Superficies - LOFT

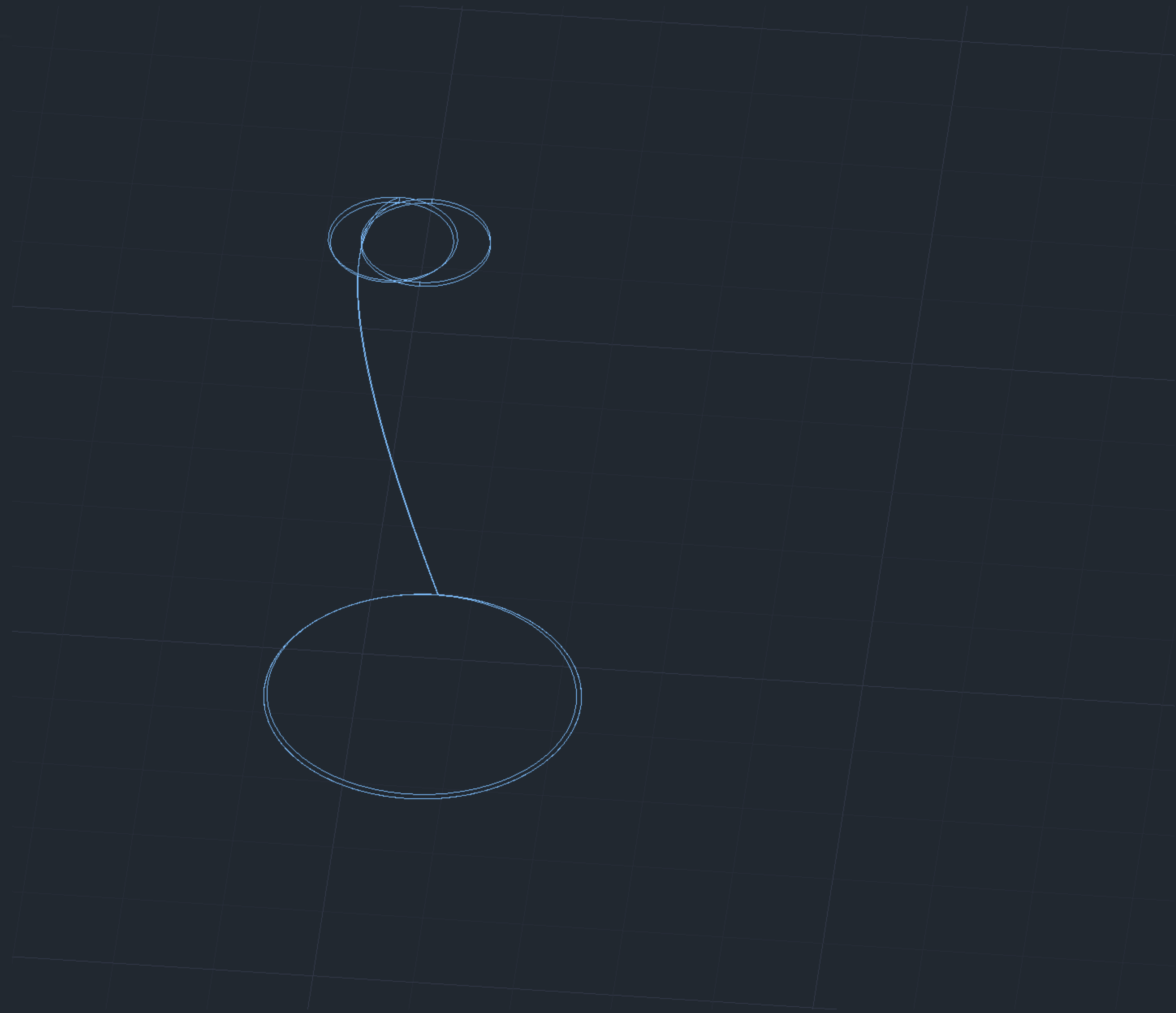




Exerc. 4.2 – Superficies - LOFT

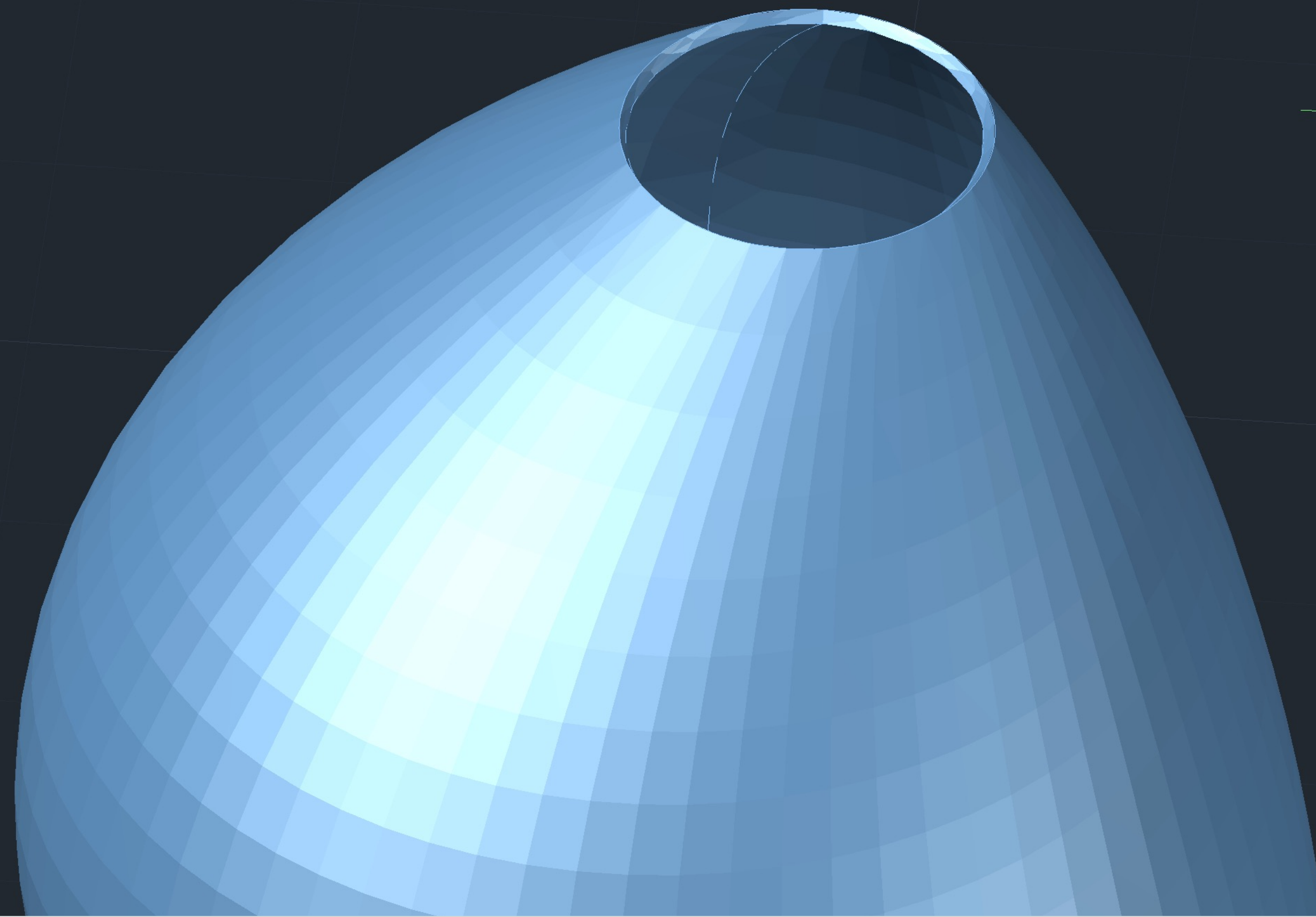


Exerc. 4.2 – Superficies - LOFT



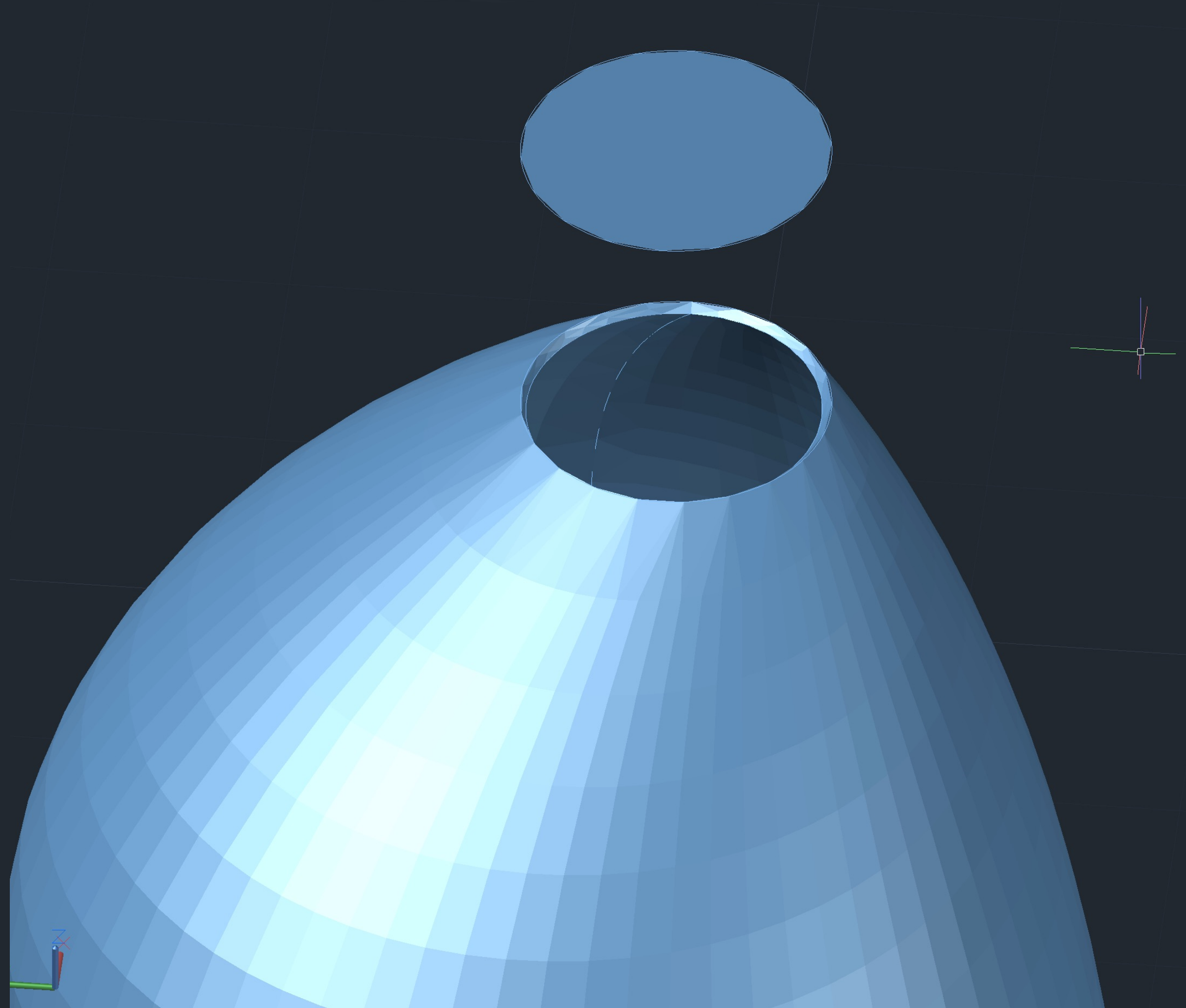
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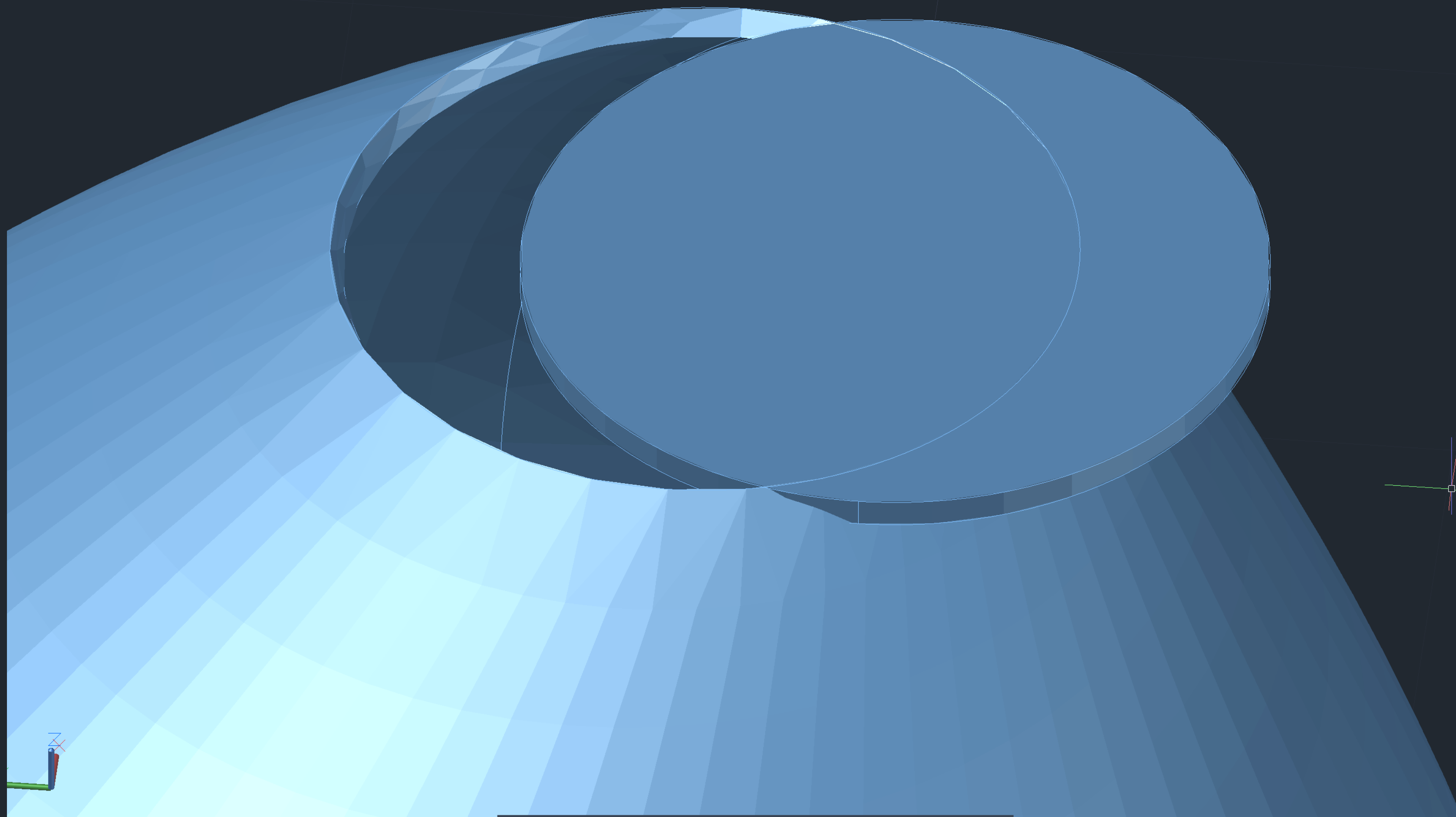


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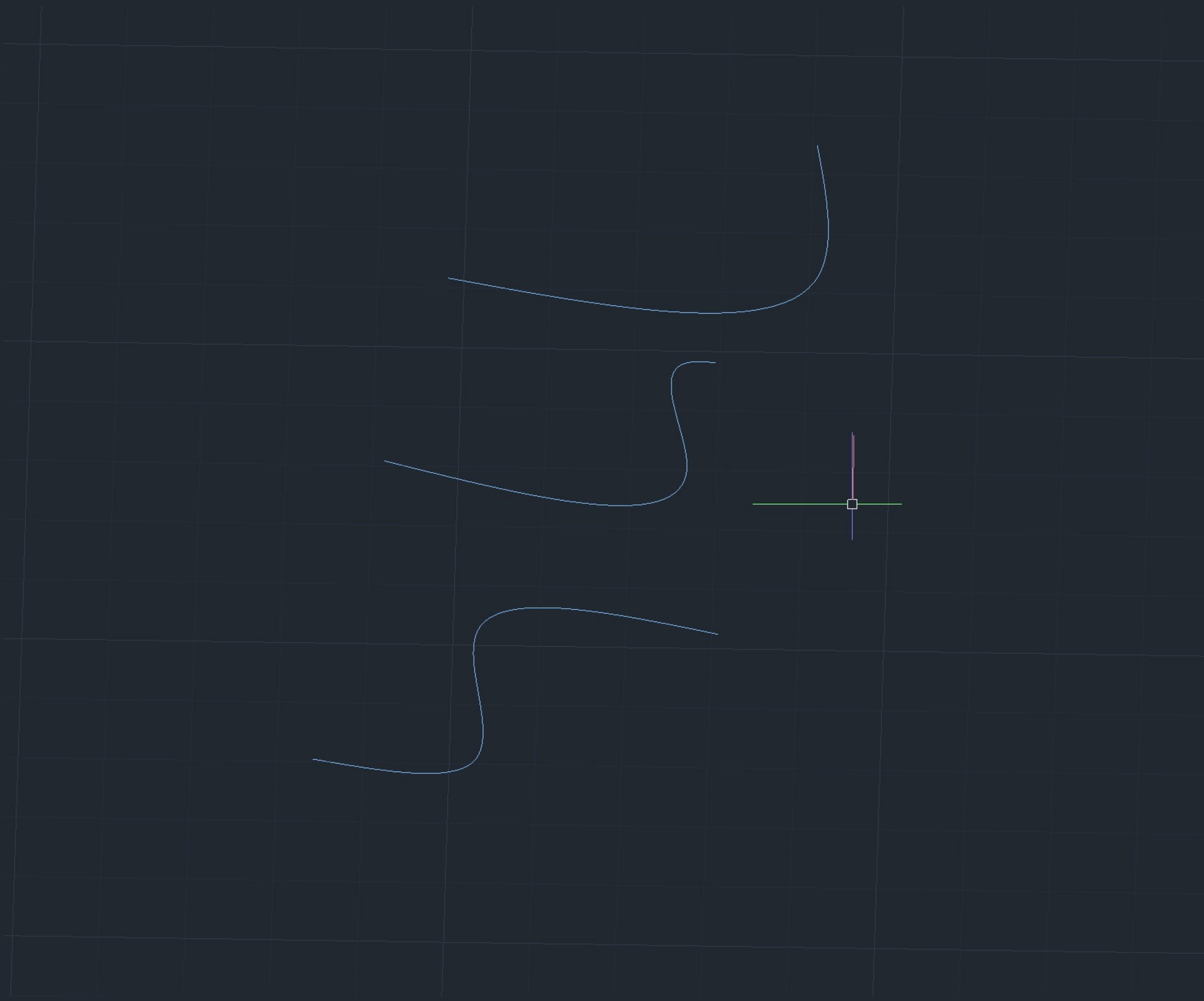




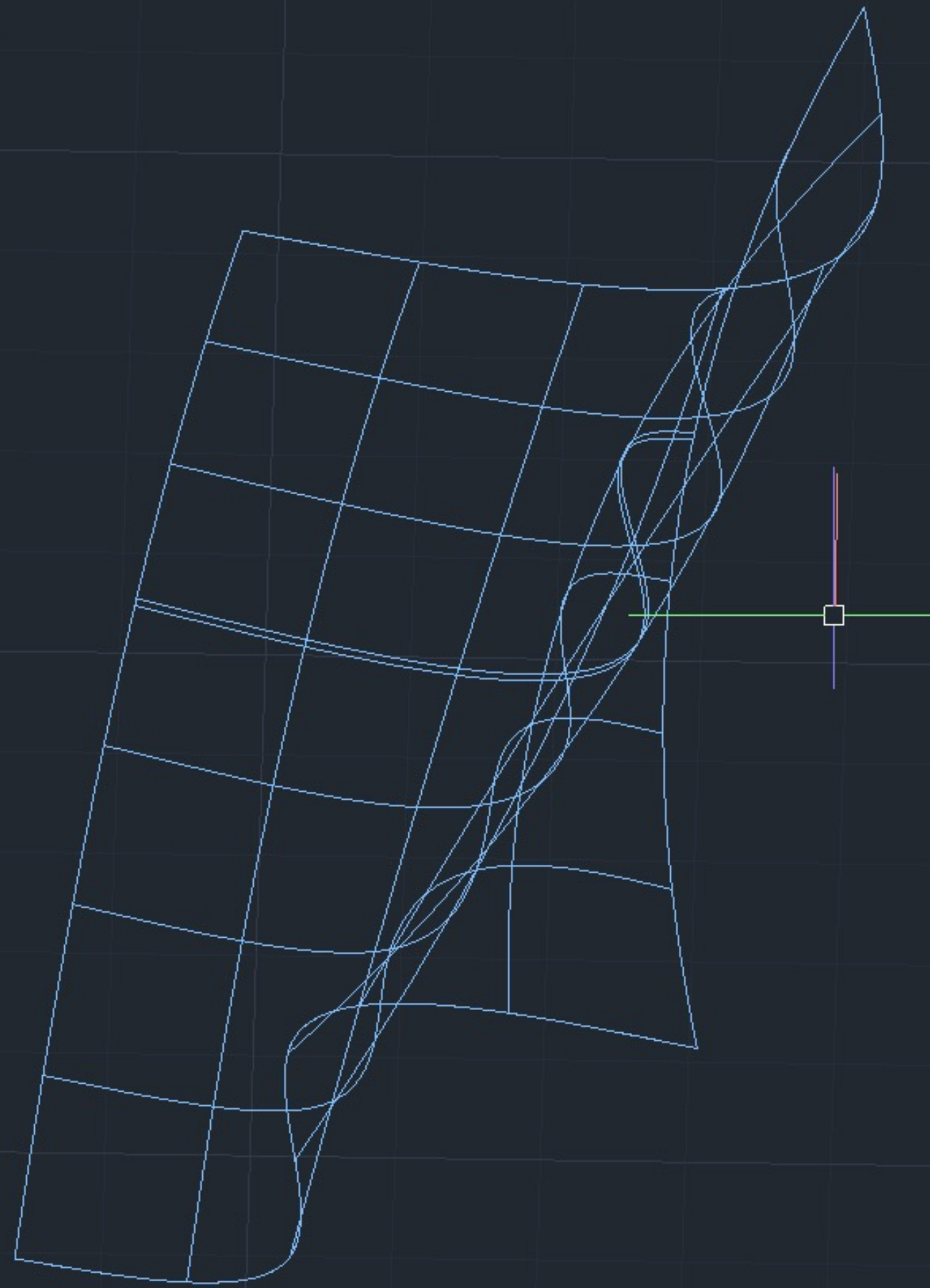
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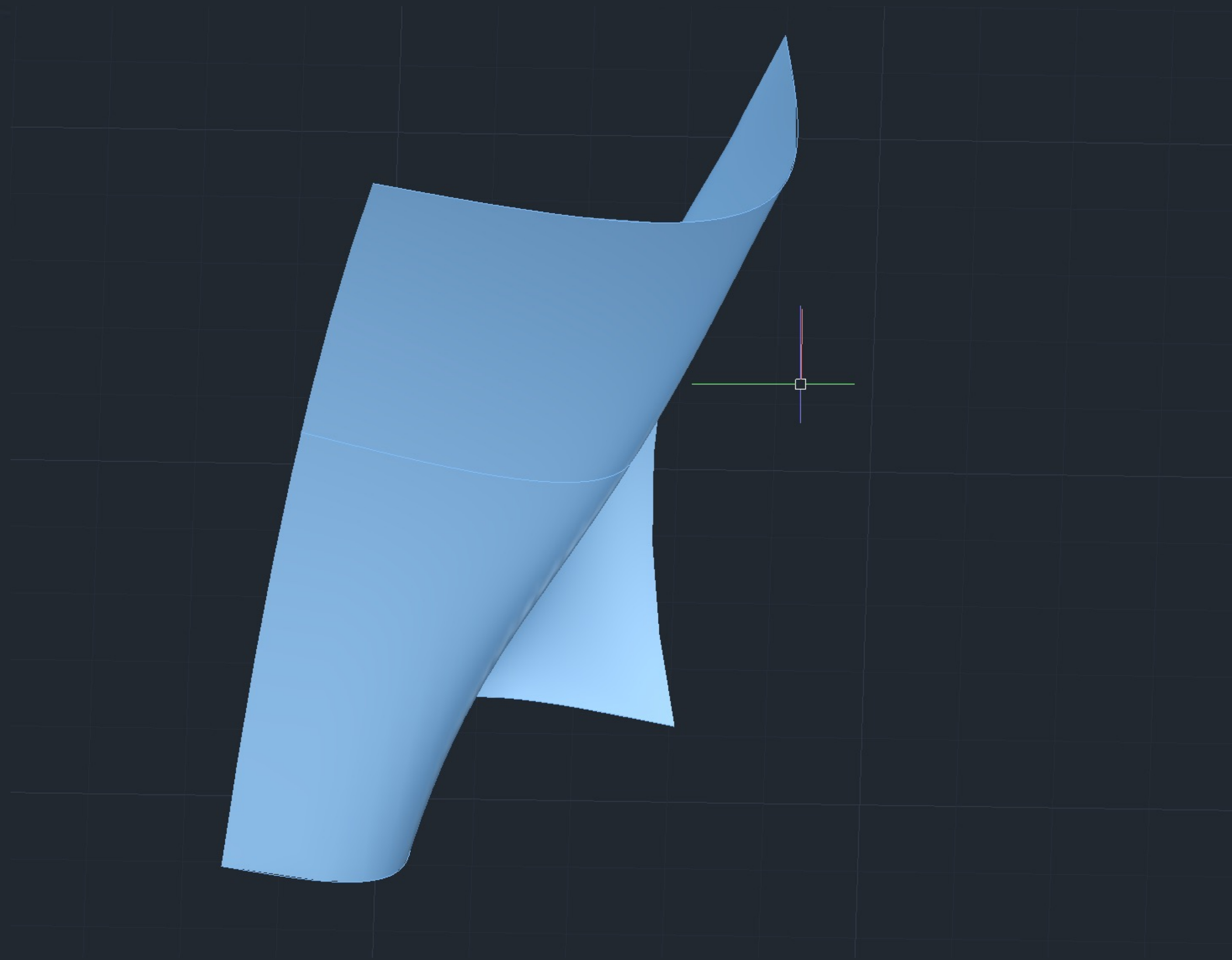


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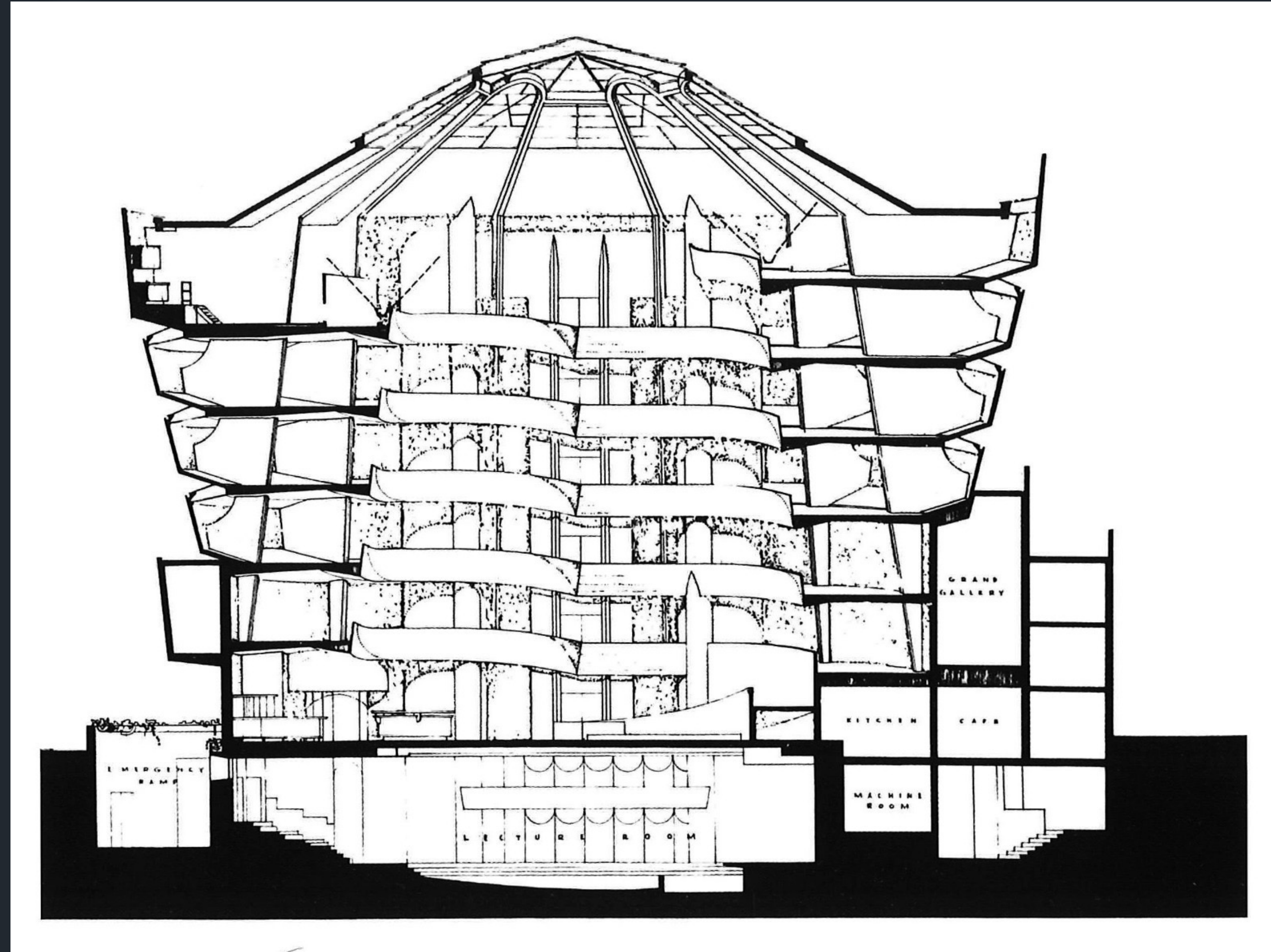


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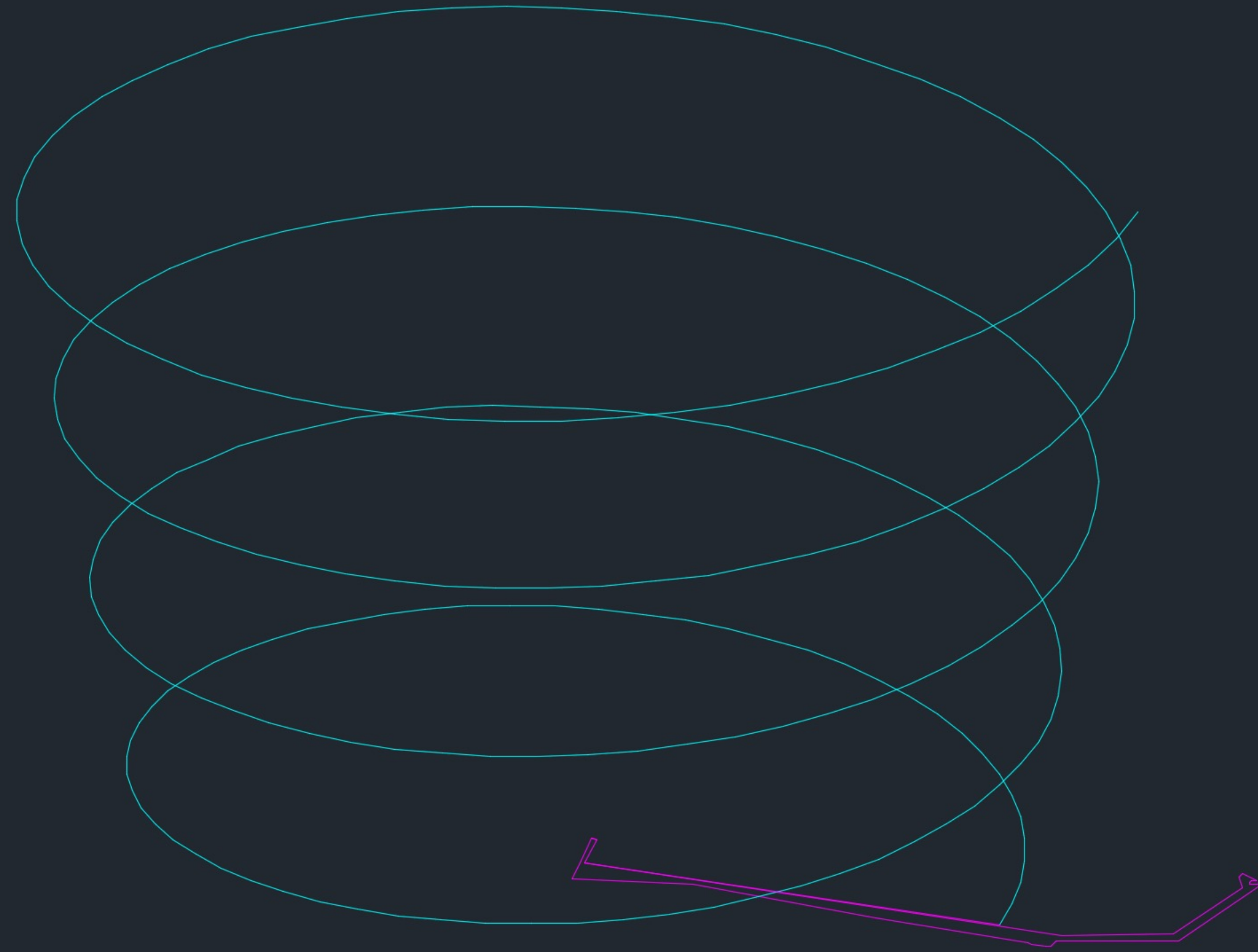




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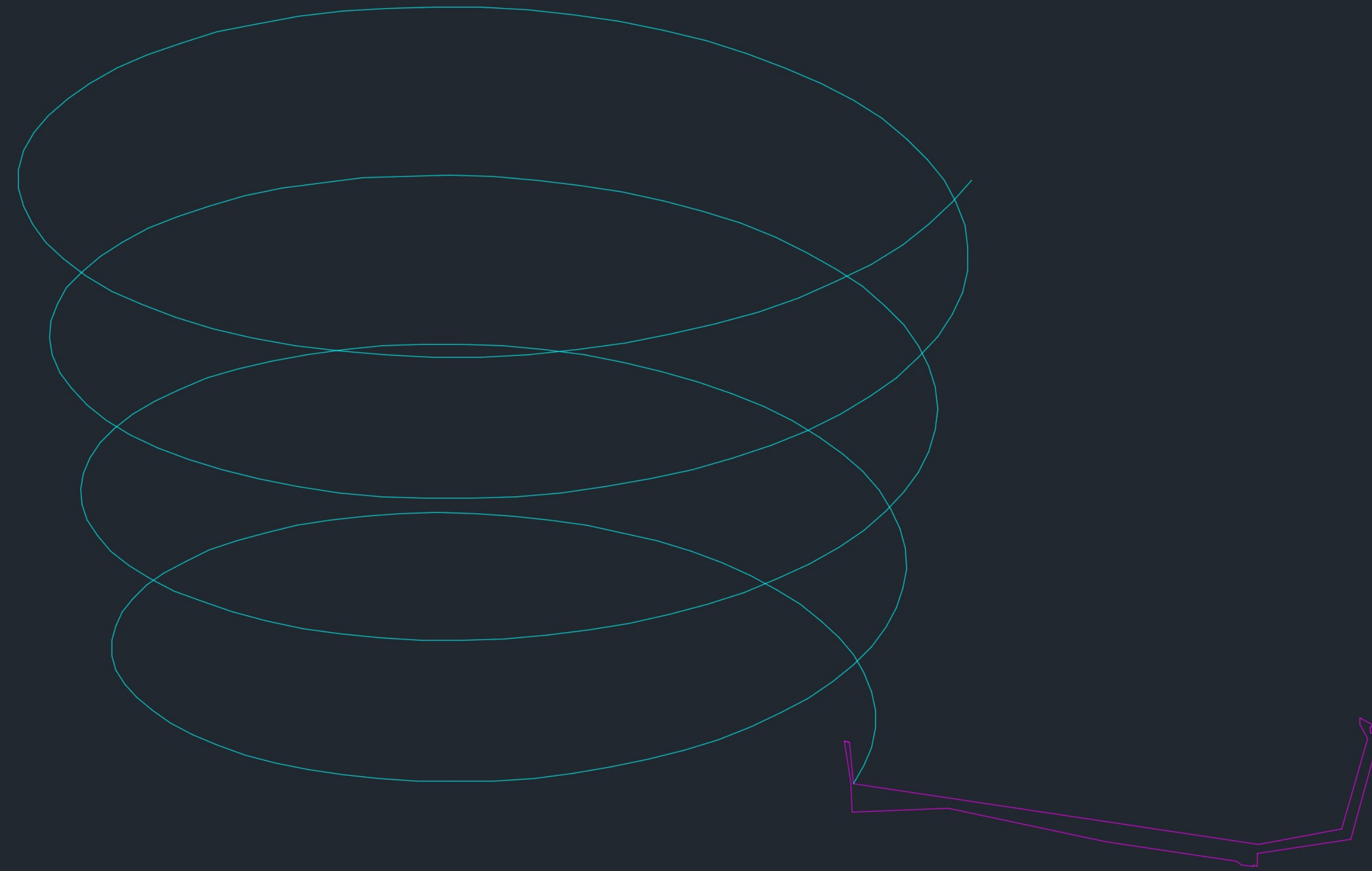


Exerc. 5 – Guggenheim Museum , NY



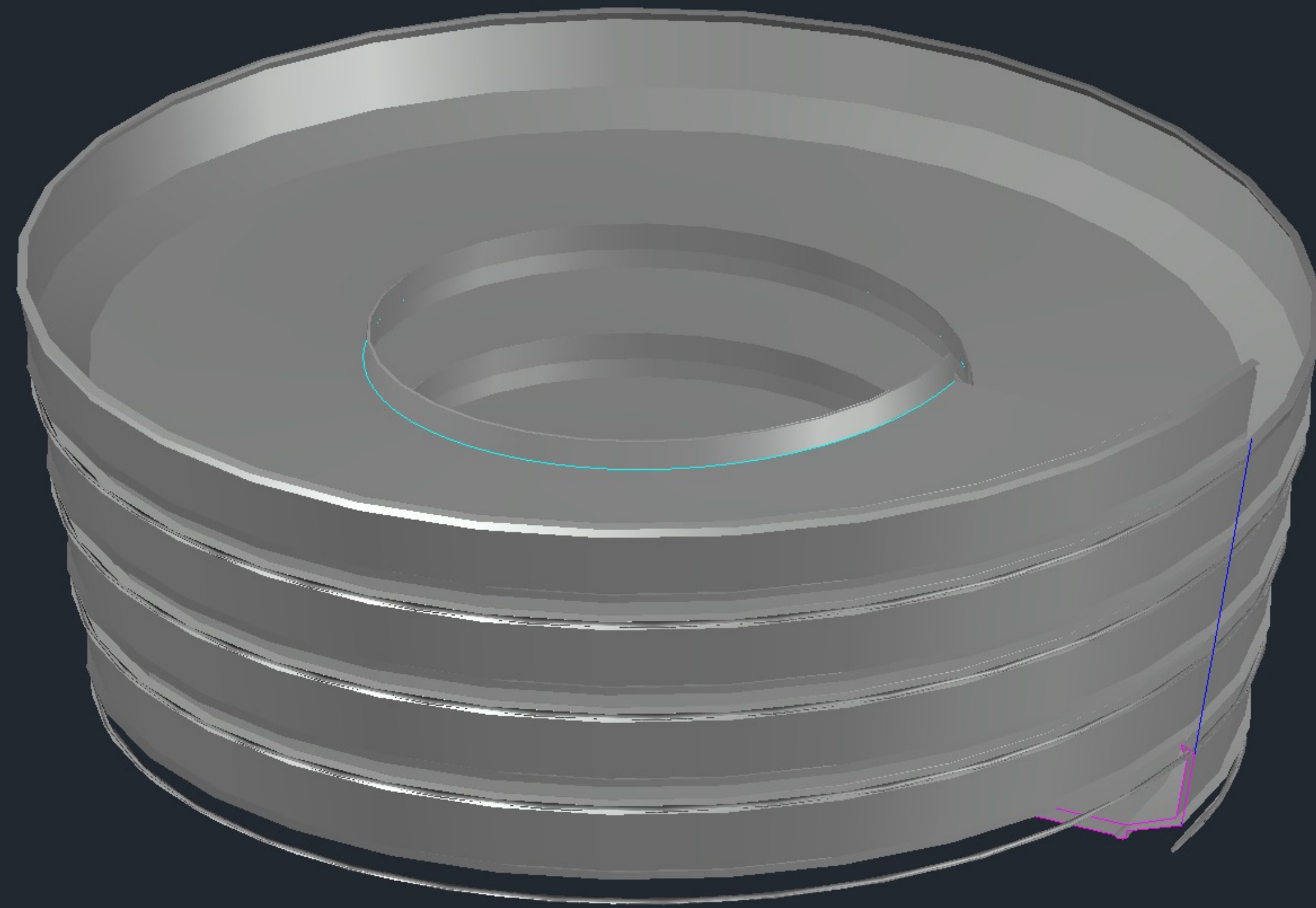
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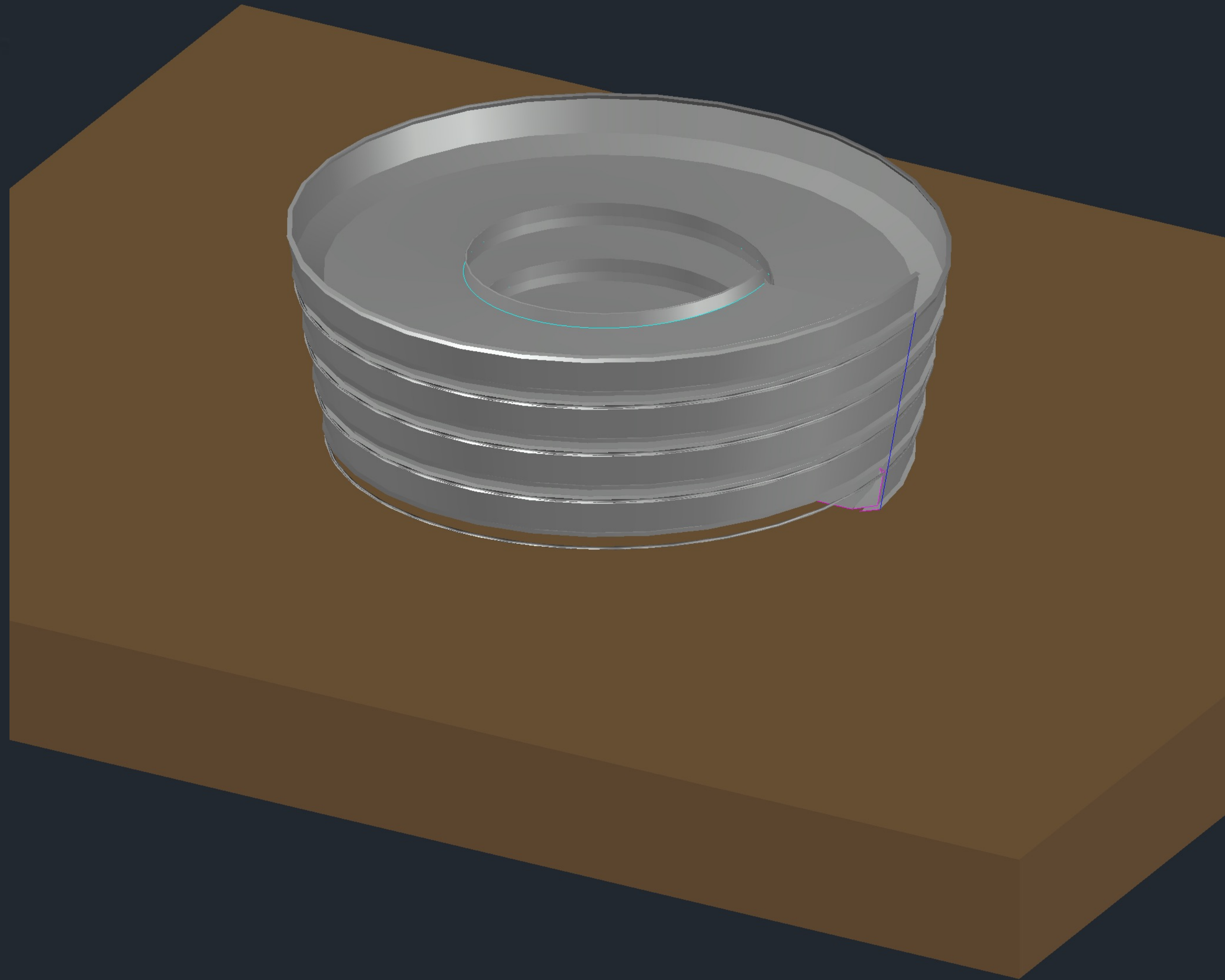


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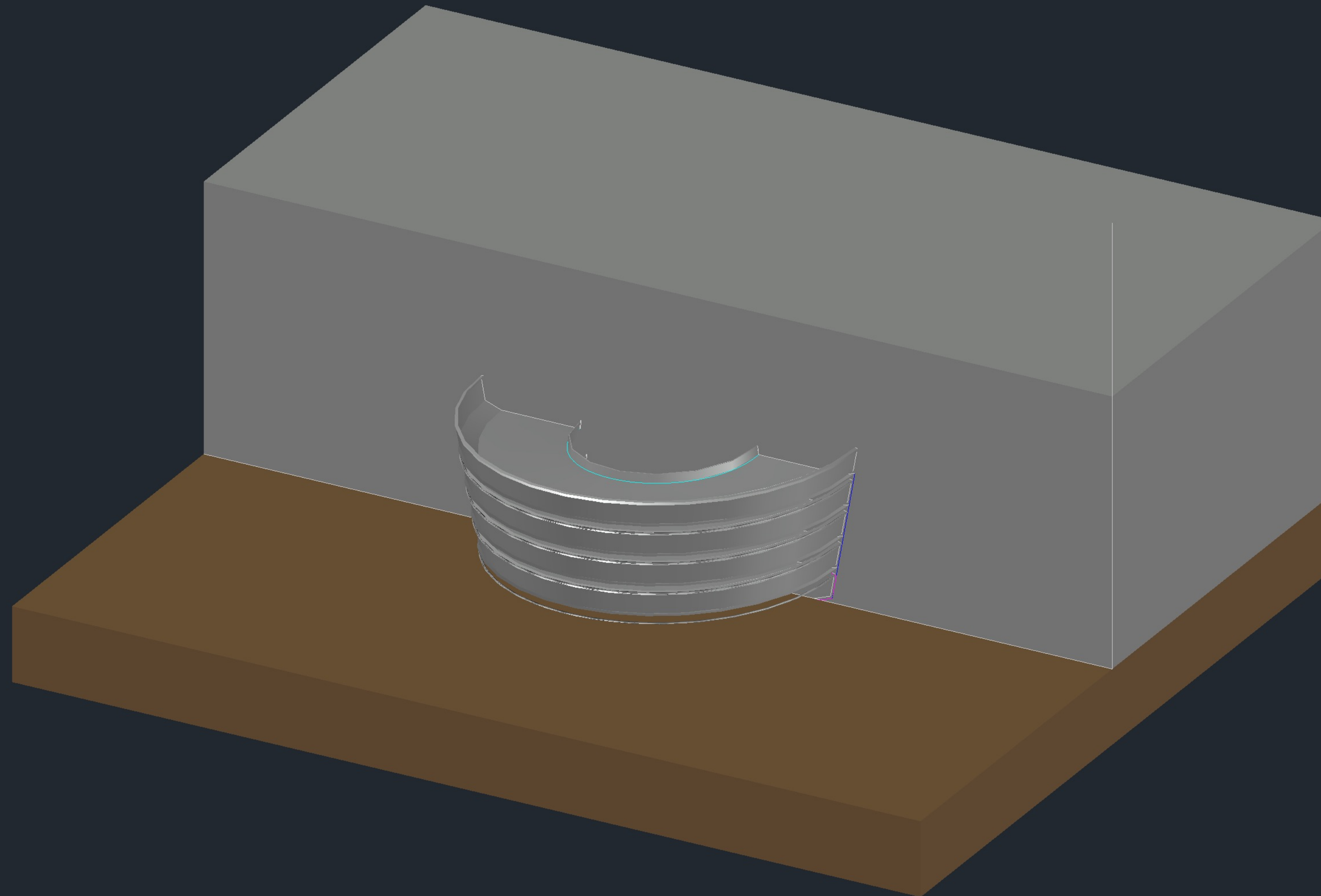




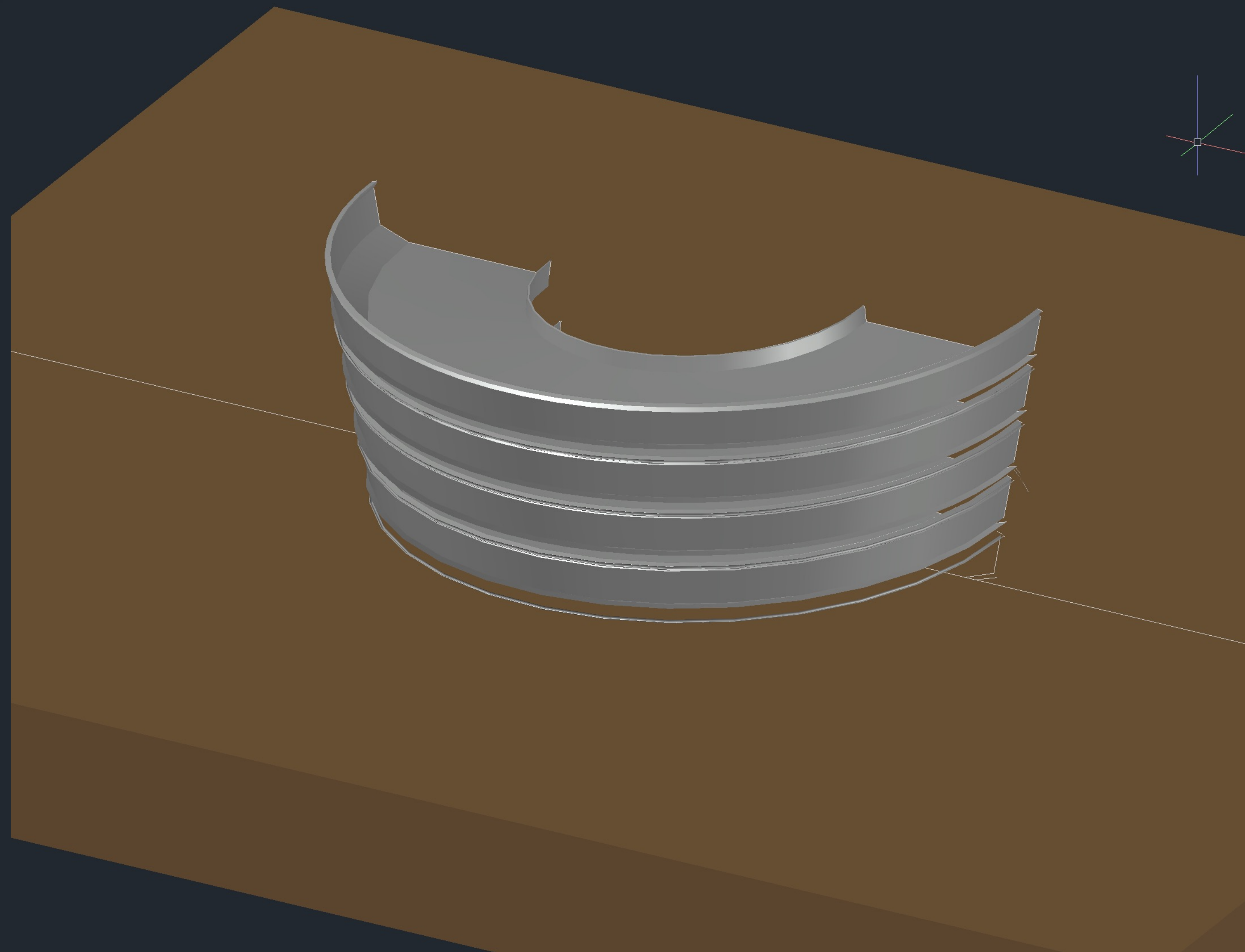
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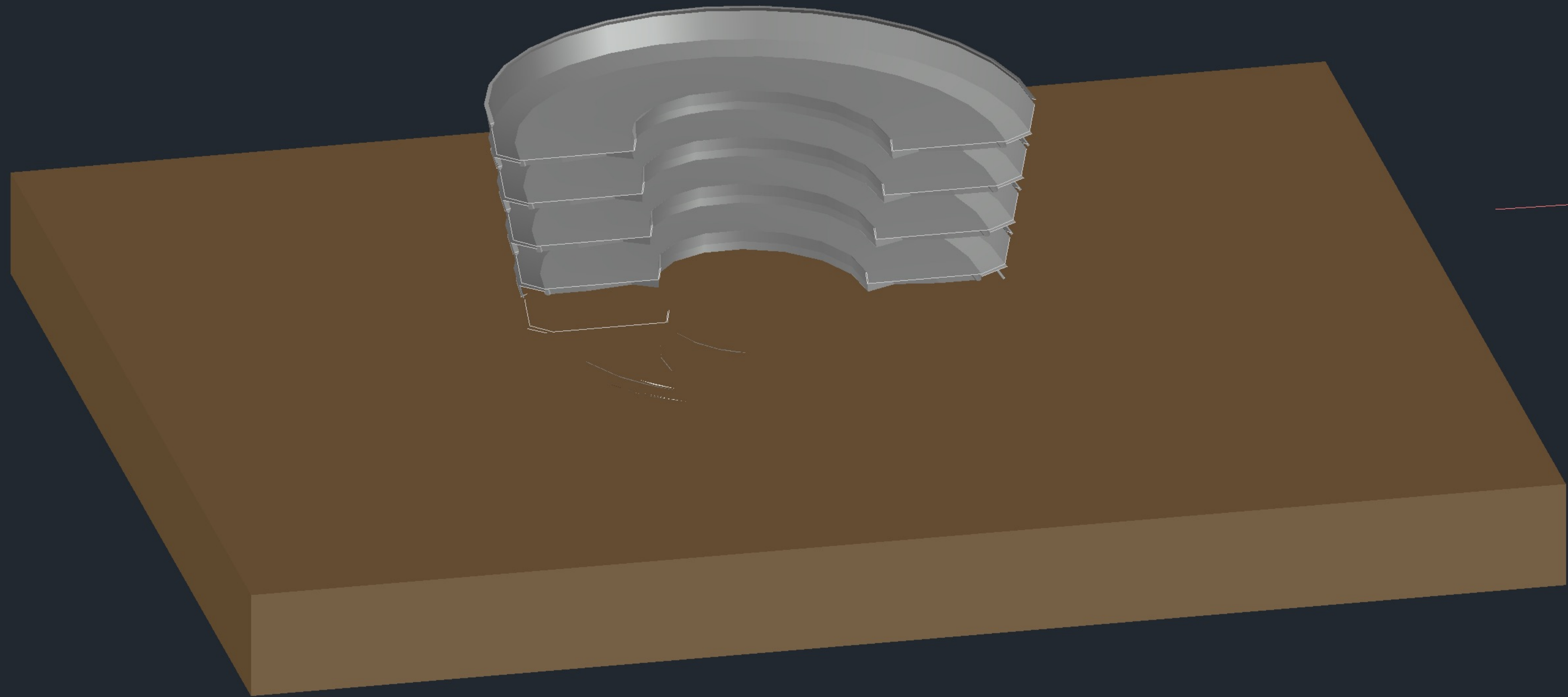


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