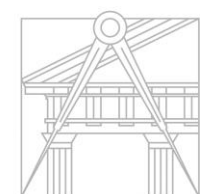


Representação Digital

2023-2024

U LISBOA

UNIVERSIDADE
DE LISBOA



FACULDADE DE ARQUITETURA
UNIVERSIDADE DE LISBOA

Mestrado Integrado em Arquitectura
Ano Lectivo 2023-2024 1º Semestre
Docente - Nuno Alão 2º Ano

20221282

RITA LOBO



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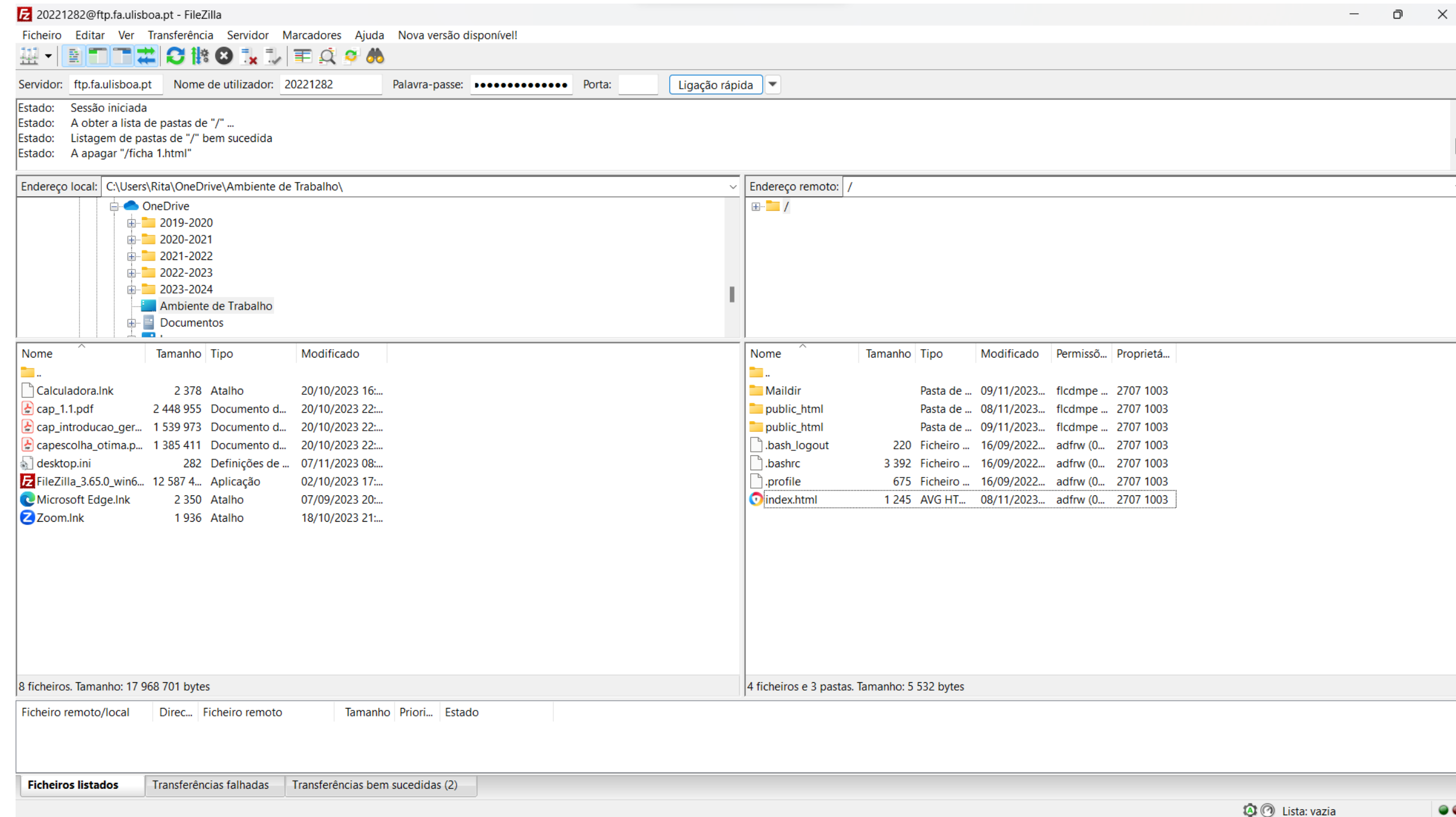
Aula 20- 28/11
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Aula 23- 06/12

Aula 1

Aula de apresentação:

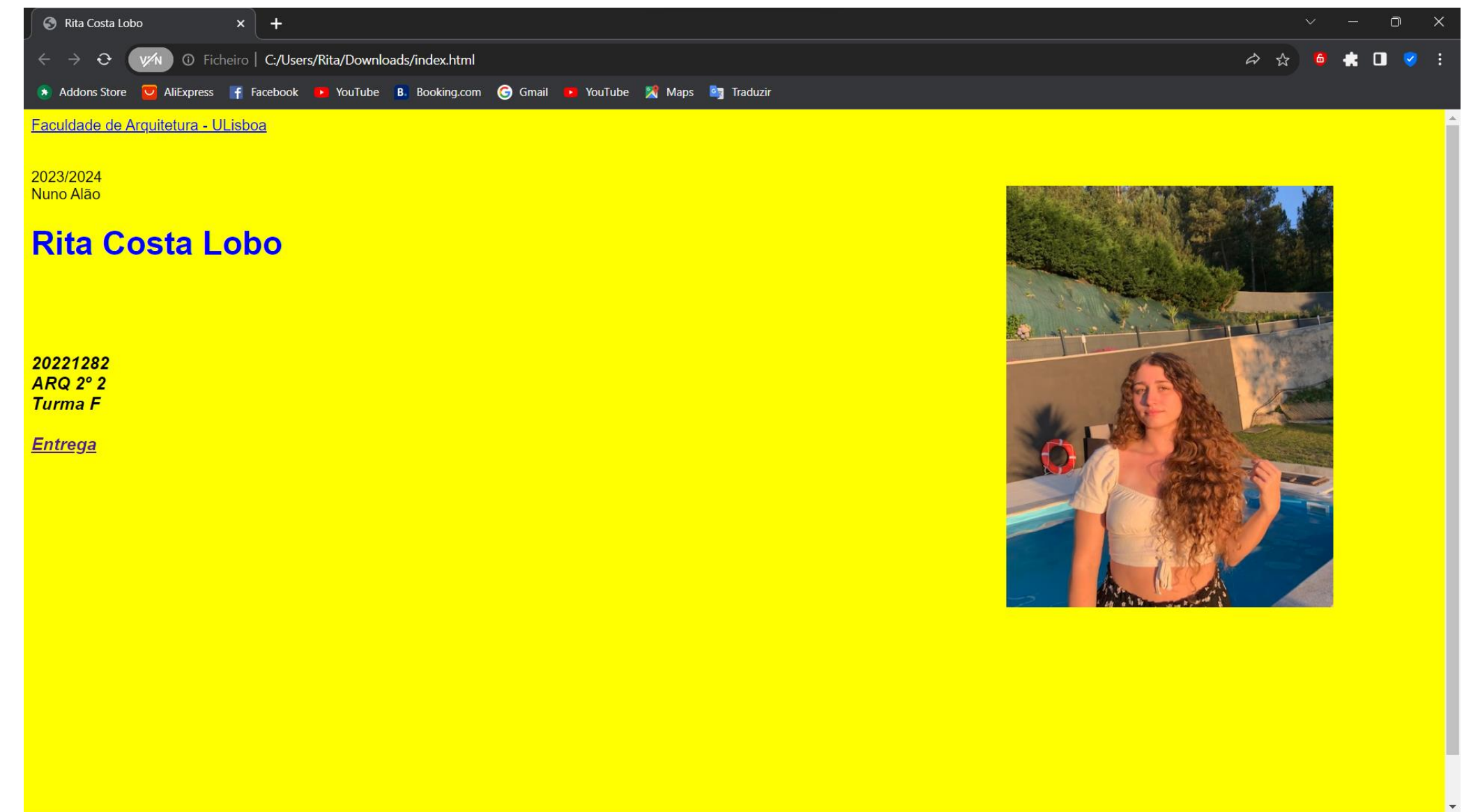
- Apresentação dos programas que iremos utilizar: Autocad 2021; 3D Studio Max 21; Notepad ++; FileZilla
- Início de sessão no FileZilla:



Aula 1

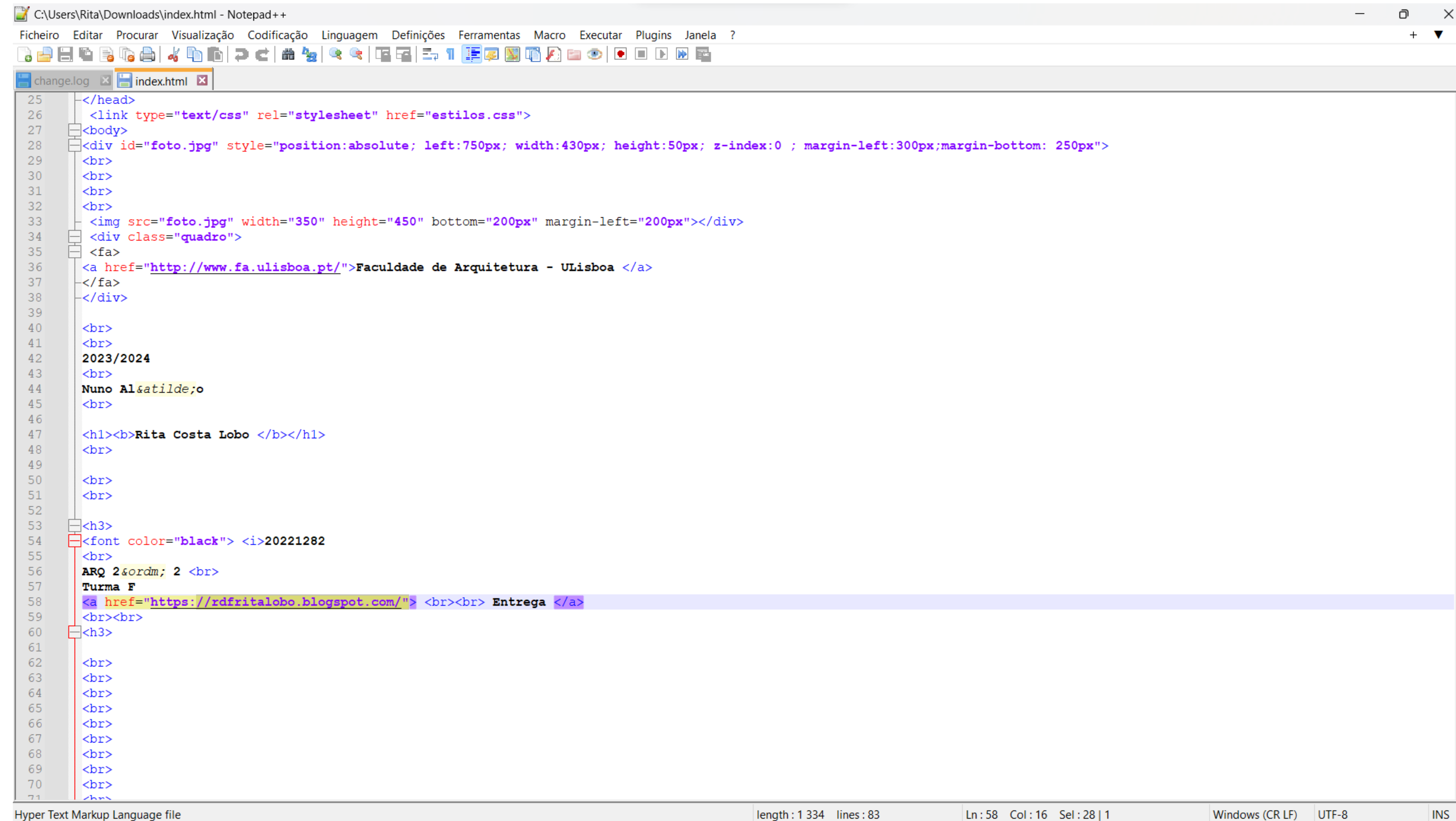
- Edição do ficheiro no Notepad ++ para a pagina pessoal:

```
1 <html>
2 <head>
3 <title> Rita Costa Lobo </title>
4 <style>
5 body {
6 background-color: yellow;
7 font-family: Arial, monospace;
8 }
9 p.sansserif {
10 font-family: Arial, sans-serif;
11 }
12 h1 {
13 color: blue;
14 text-align: left;
15 font-family: arial, sans-serif;
16 font-size: 35px;
17 }
18 footer {
19 color: black;
20 text-align: center;
21 font-family: arial, sans-serif;
22 font-size: 15px;
23 }
24 </style>
25 </head>
26 <link type="text/css" rel="stylesheet" href="estilos.css">
27 <body>
28 <div id="foto.jpg" style="position:absolute; left:750px; width:430px; height:50px; z-index:0 ; margin-left:300px;margin-bottom: 250px">
29 <br>
30 <br>
31 <br>
32 <br>
33 </div>
34 <div class="quadro">
35 <fa
36 <a href="http://www.fa.ulisboa.pt/">Faculdade de Arquitetura - U Lisboa </a>
37 </fa>
38 </div>
39
40 <br>
41 <br>
42 2023/2024
43 <br>
44 Nuno Al&atilde;o
45 <br>
46 </body>
47 </html>
```



Aula 2

- Acabar de ajustar o index/pagina individual:



```
25 </head>
26 <link type="text/css" rel="stylesheet" href="estilos.css">
27 <body>
28 <div id="foto.jpg" style="position:absolute; left:750px; width:430px; height:50px; z-index:0 ; margin-left:300px;margin-bottom: 250px">
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42 2023/2024
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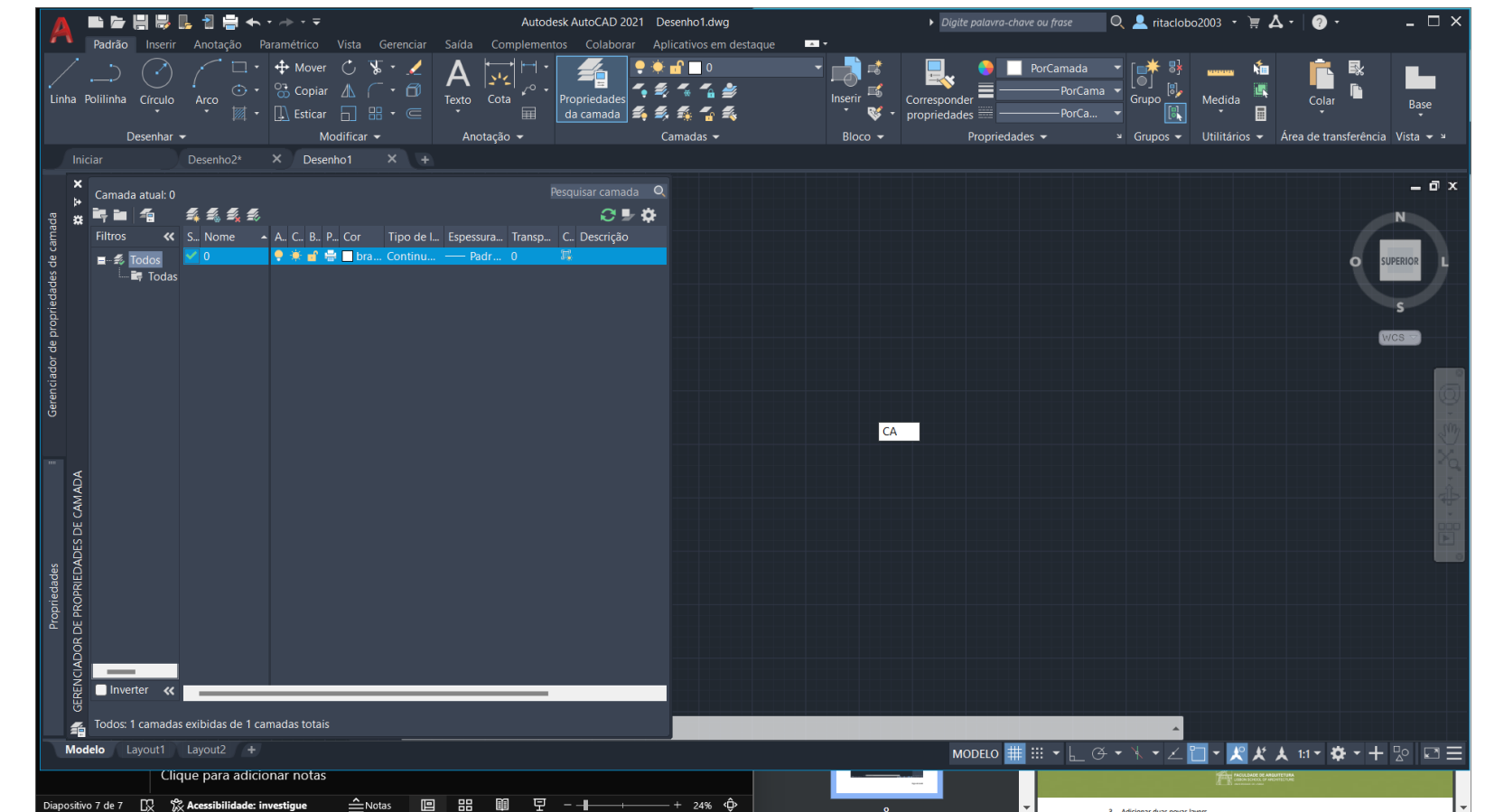
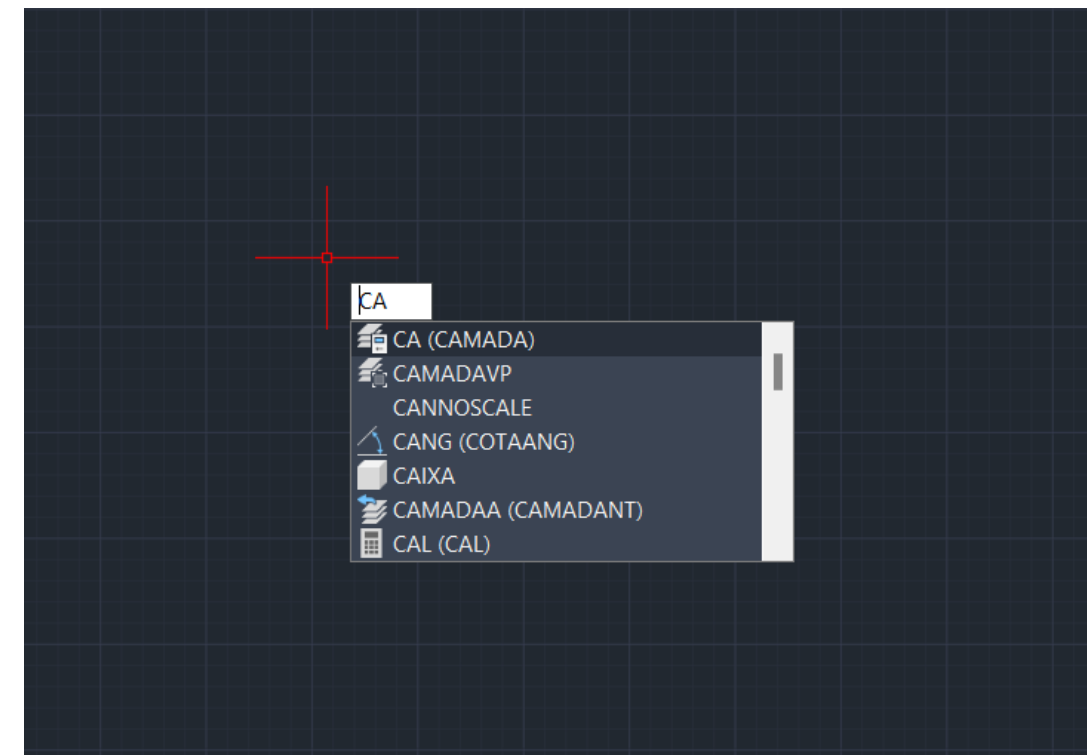
Aula 3

- Introdução do Autocad
- Aprendizagem de comandos e criação de layers
- Desenhar pentágono

Comandos:

- L (LINE)
- E (ERASE)
- LA (LAYER)
- LI (LIST)
- PL (POLYLINE)
- U_ENTER
- M (MOVE)
- DTEXT

Criação de layers:

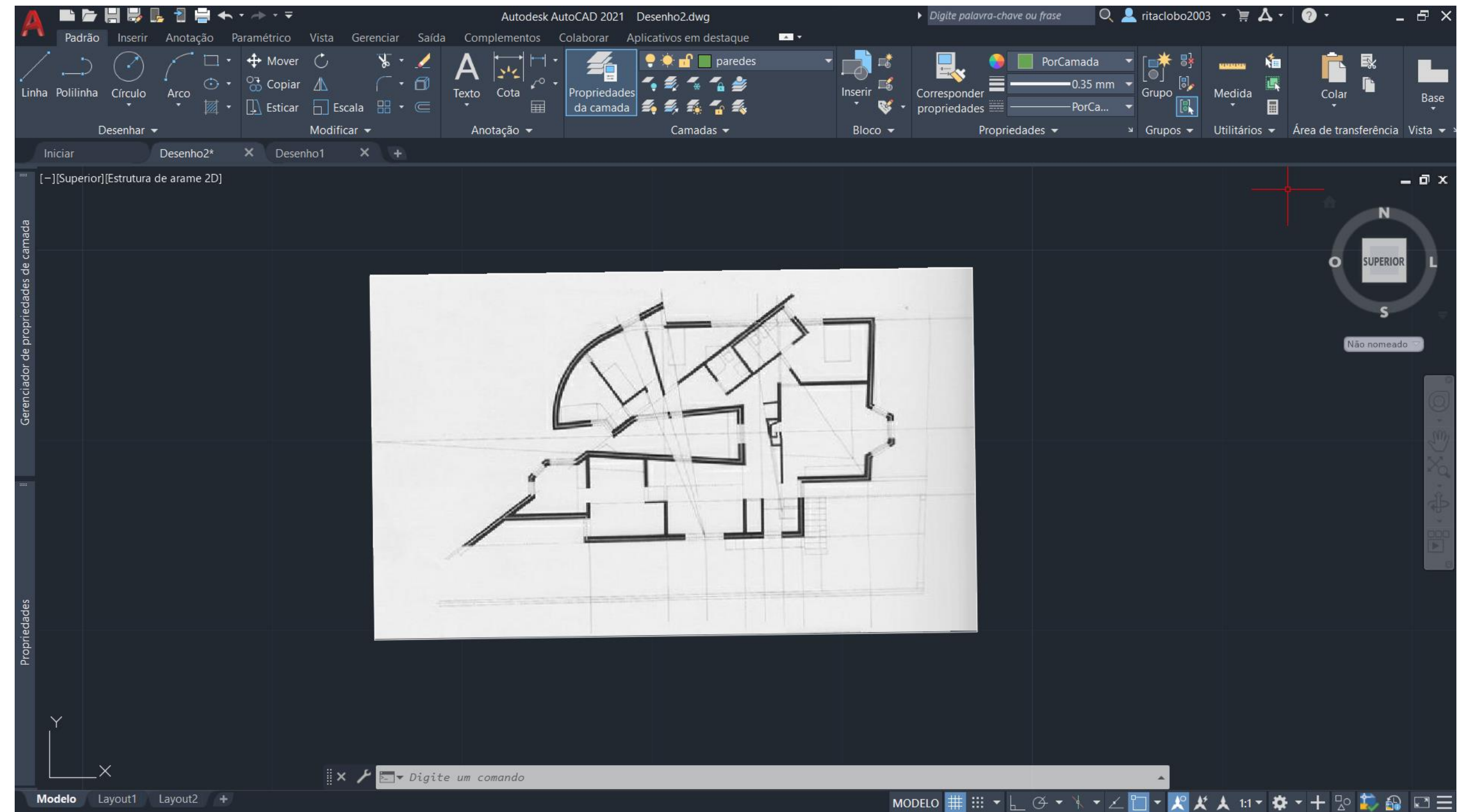


Aula 4

- **Aprendizagem de novos comandos**
- **Colocação da imagem da planta no Autocad e escala da mesma**

Novos comandos:

- **U (UNDO)**
- **M (MOVE)**
- **CHPROP (CHANGEPROPERTIES)**
- **ORTHOMODE**
- **DIST**
- **SCALE**
- **COPY**
- **ROTATE**
- **ALIGN**

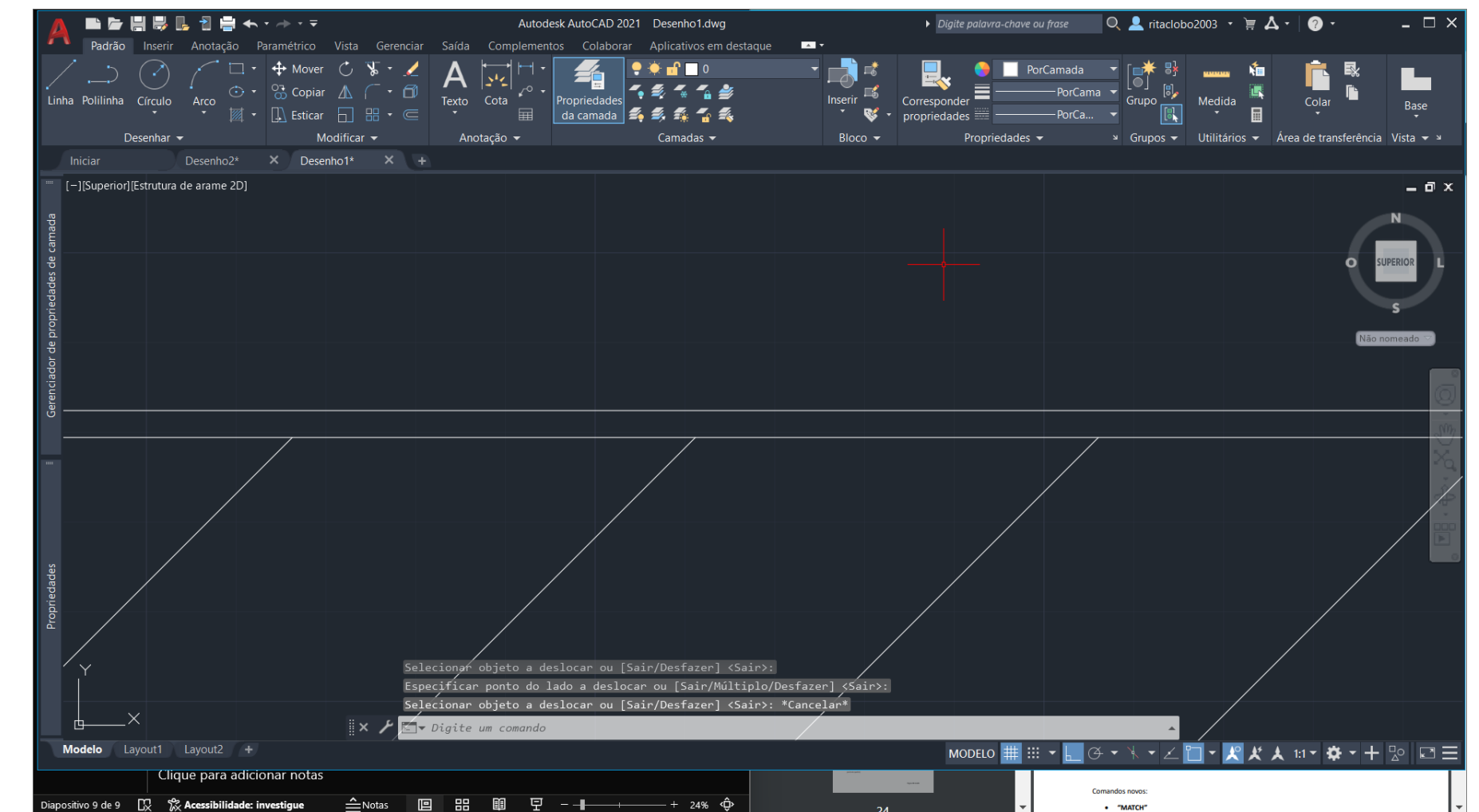
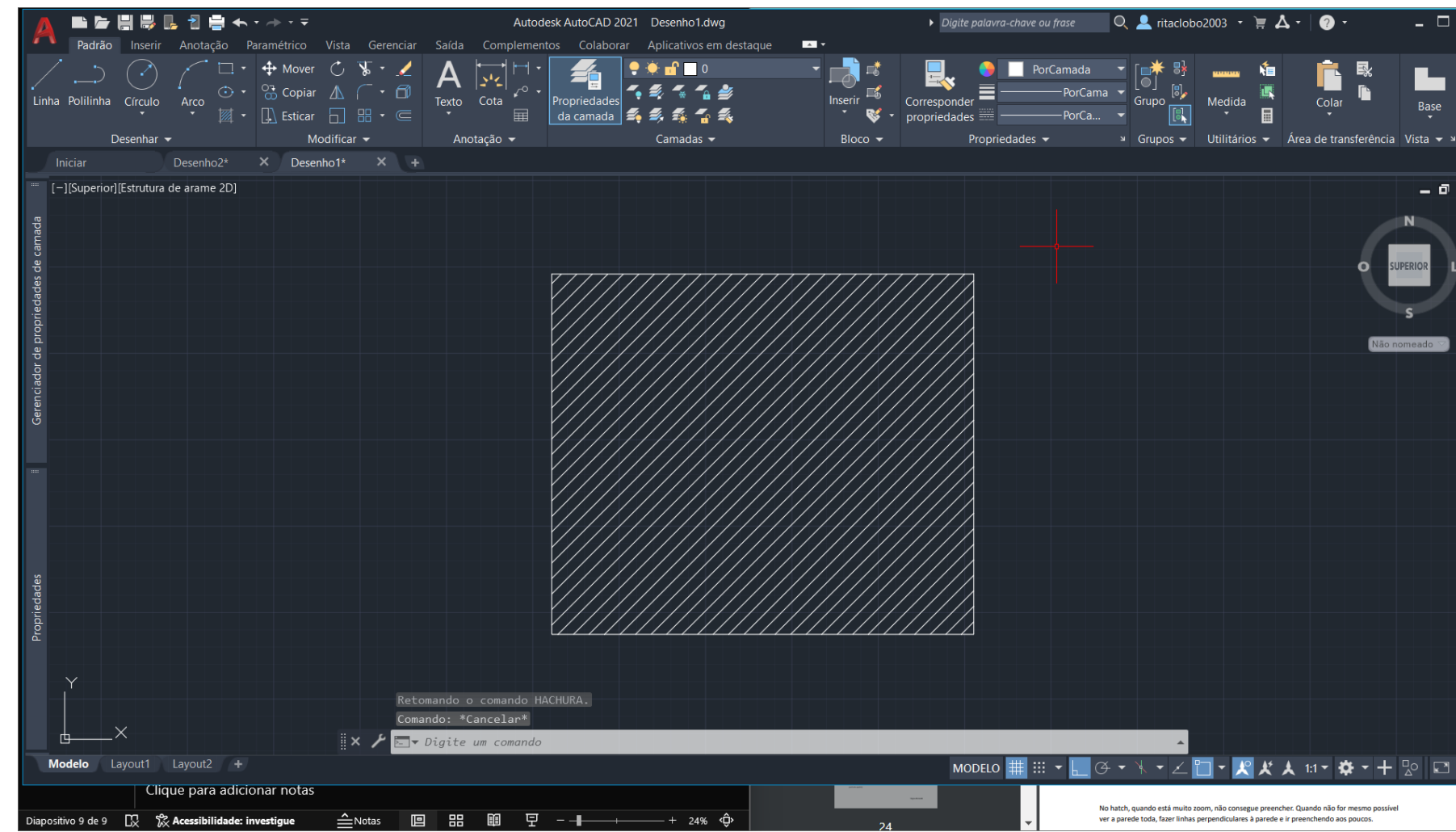


Aula 5

- Aprendizagem de novos comandos

Novos comandos:

- ALIGN
- DRAWORDER
- CHPROP
- OFFSET
- EXTEND
- TRIM
- FILLET
- HATCH
- MIRROR

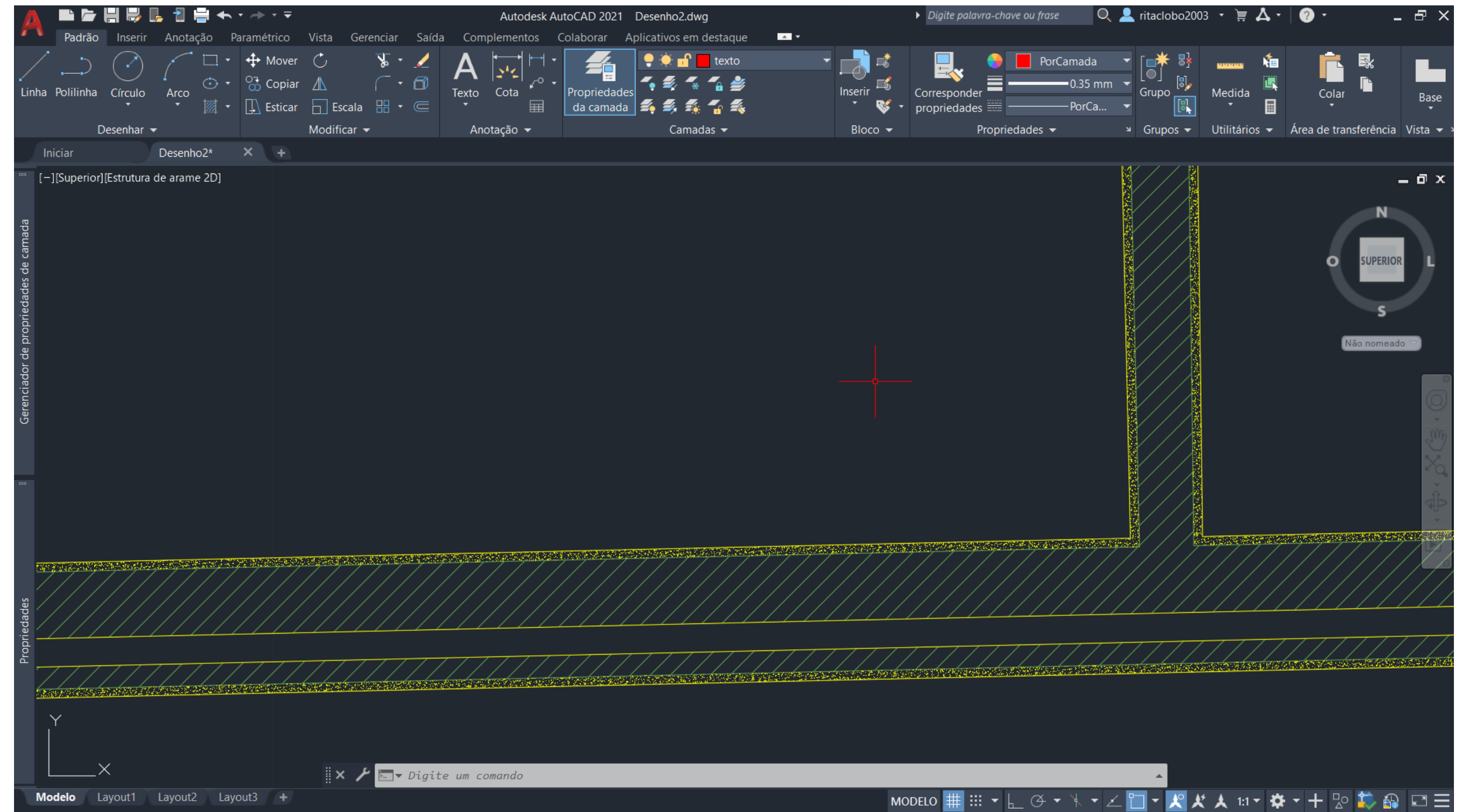


Aula 6

- **Aprendizagem de novos comandos**
- **Começar a fazer a planta à escala 1/100**

Novos comandos:

- **MATCH**
- **BREAK**
- **STRETCH**
- **REMOVE**

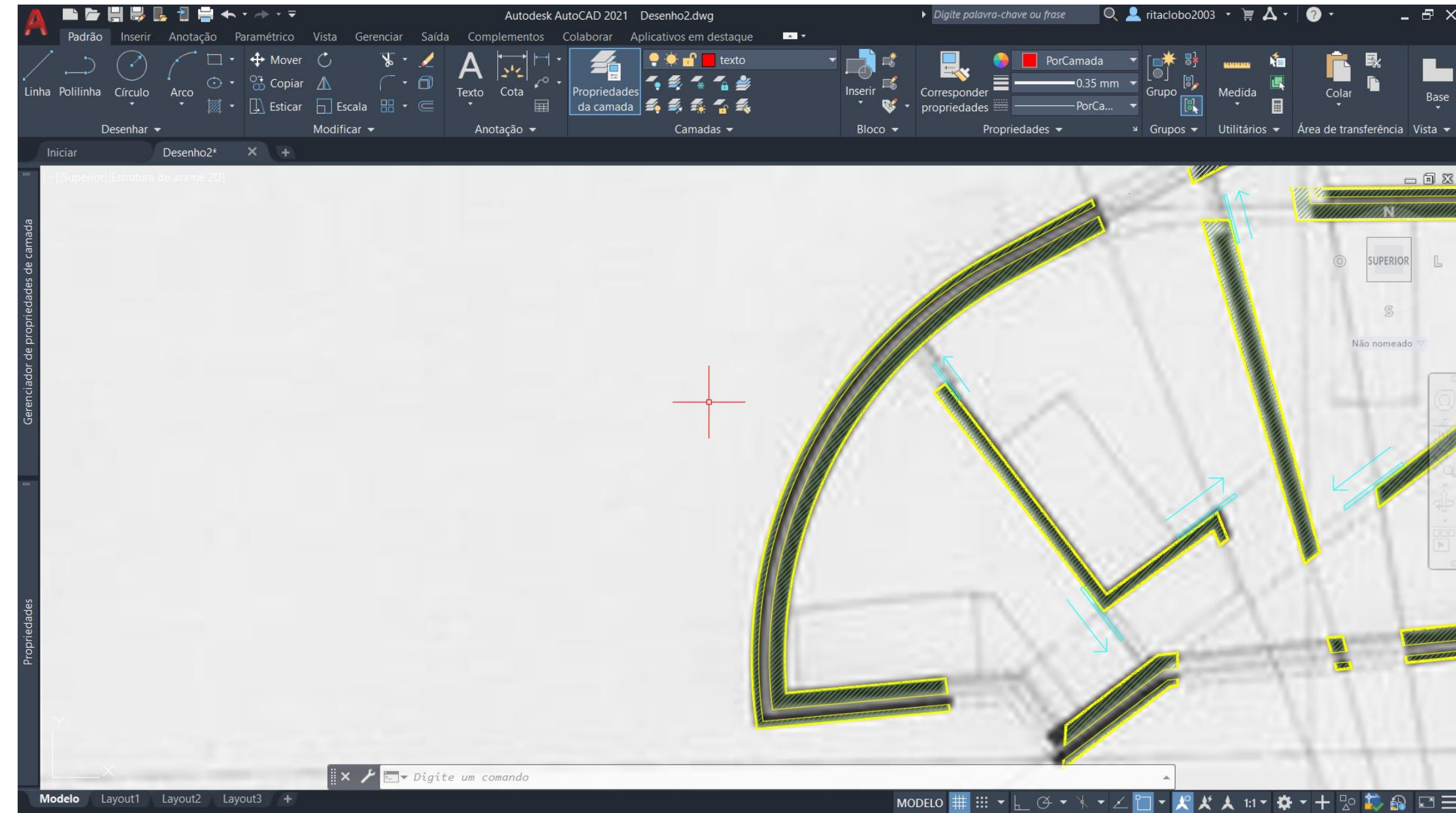


Aula 7

- **Aprendizagem de novos comandos**
- **Fizemos o arco da planta**

Novos comandos:

- **C (CIRCLE)**
- **ARC (ARCO)**
- **DIVIDE**
- **OSNAP**
- **PEDIT (POLYLINE EDIT)**

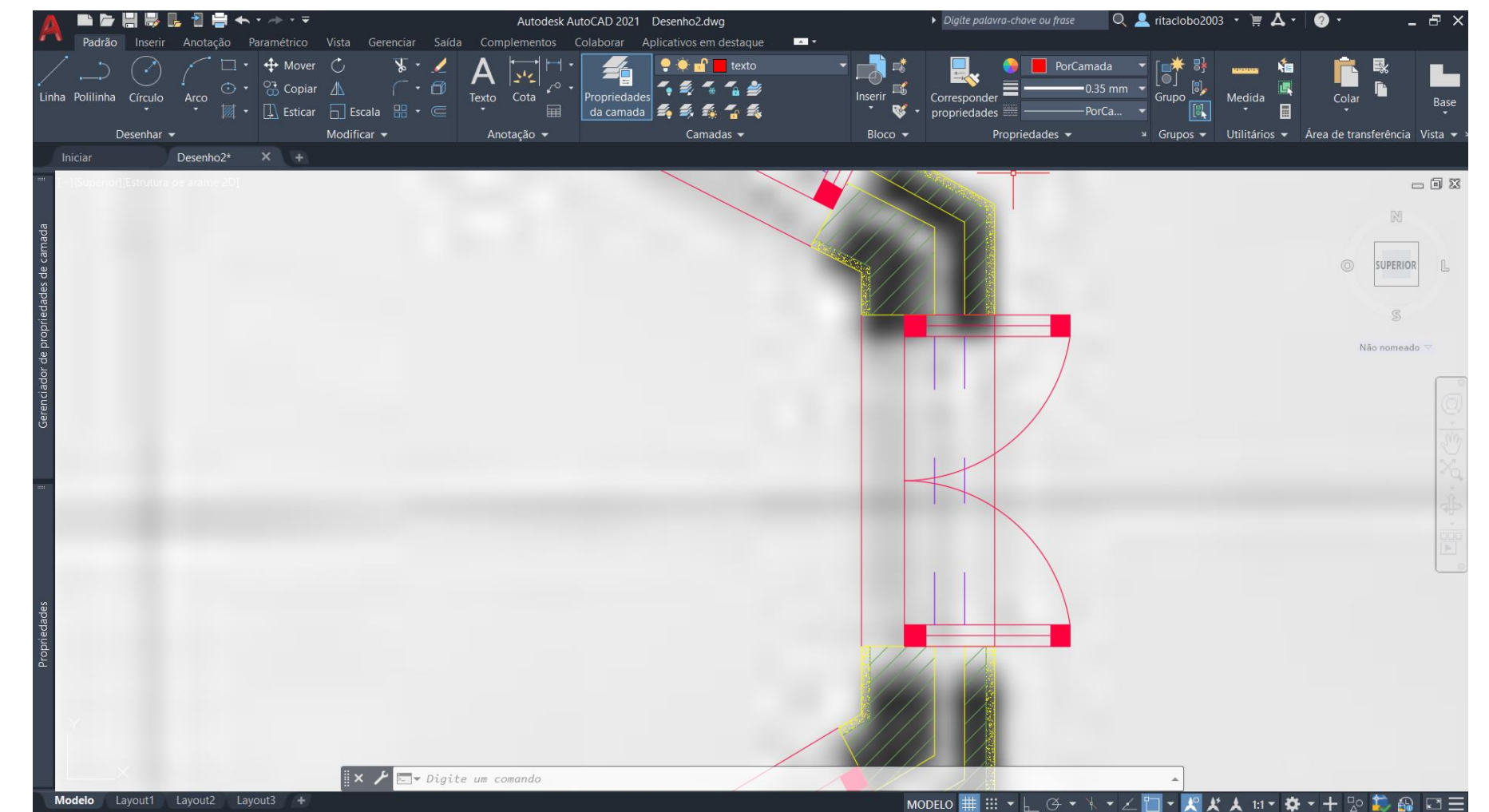
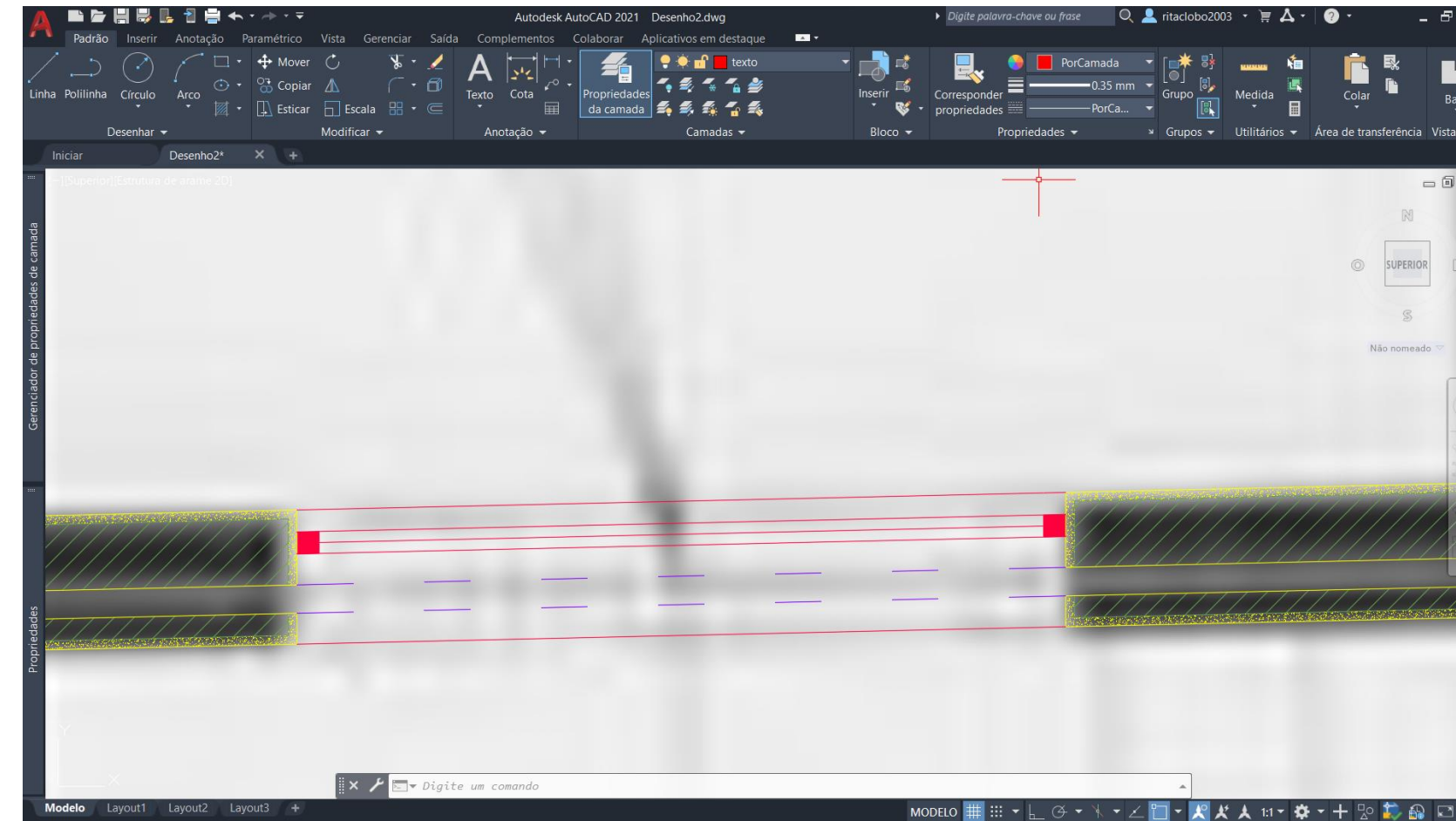


Aula 8

- **Aprendizagem de novos comandos**
- **Aprendizagem de como fazer as janelas**
- **Aprendizagem de como fazer layout para impressão**

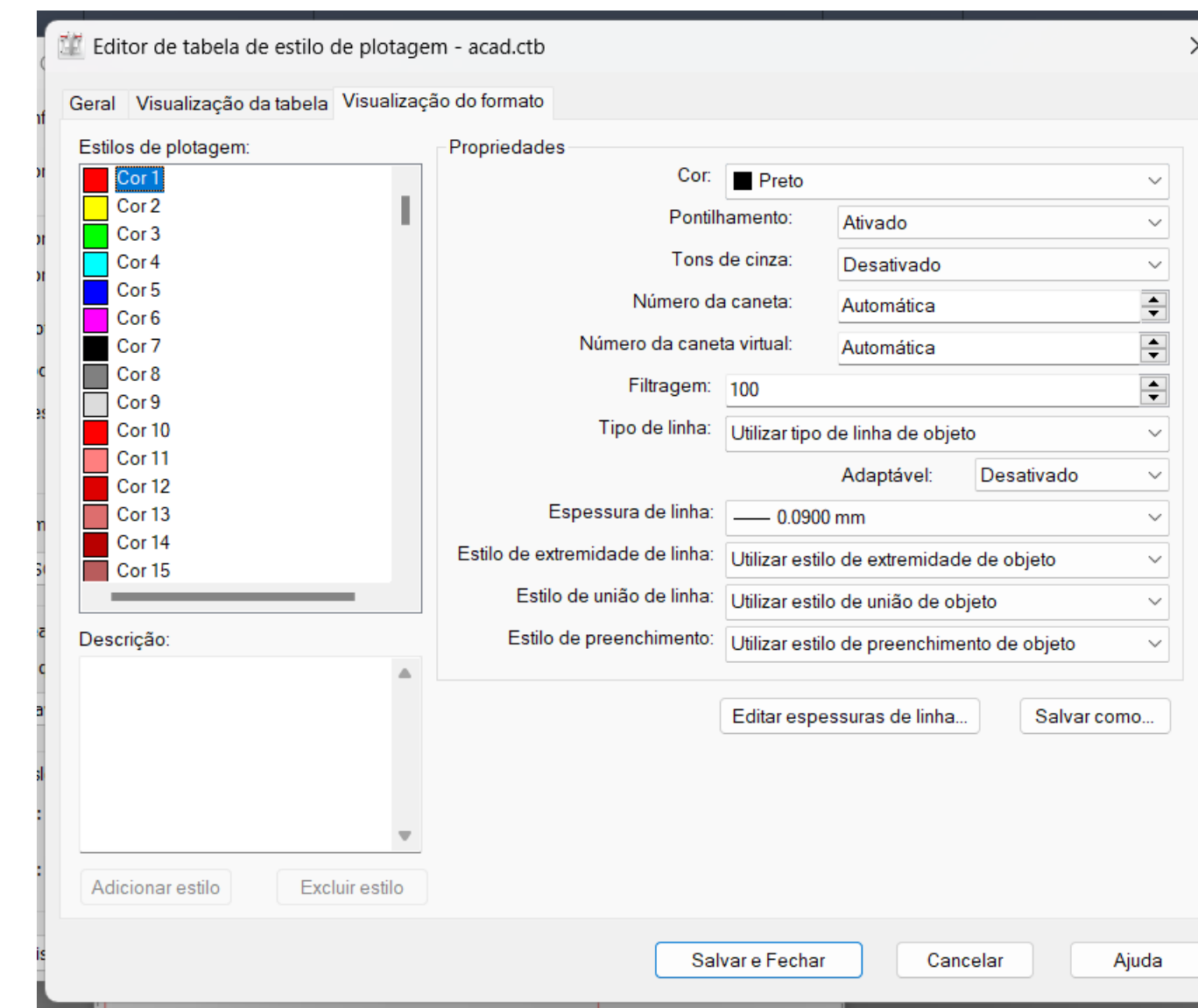
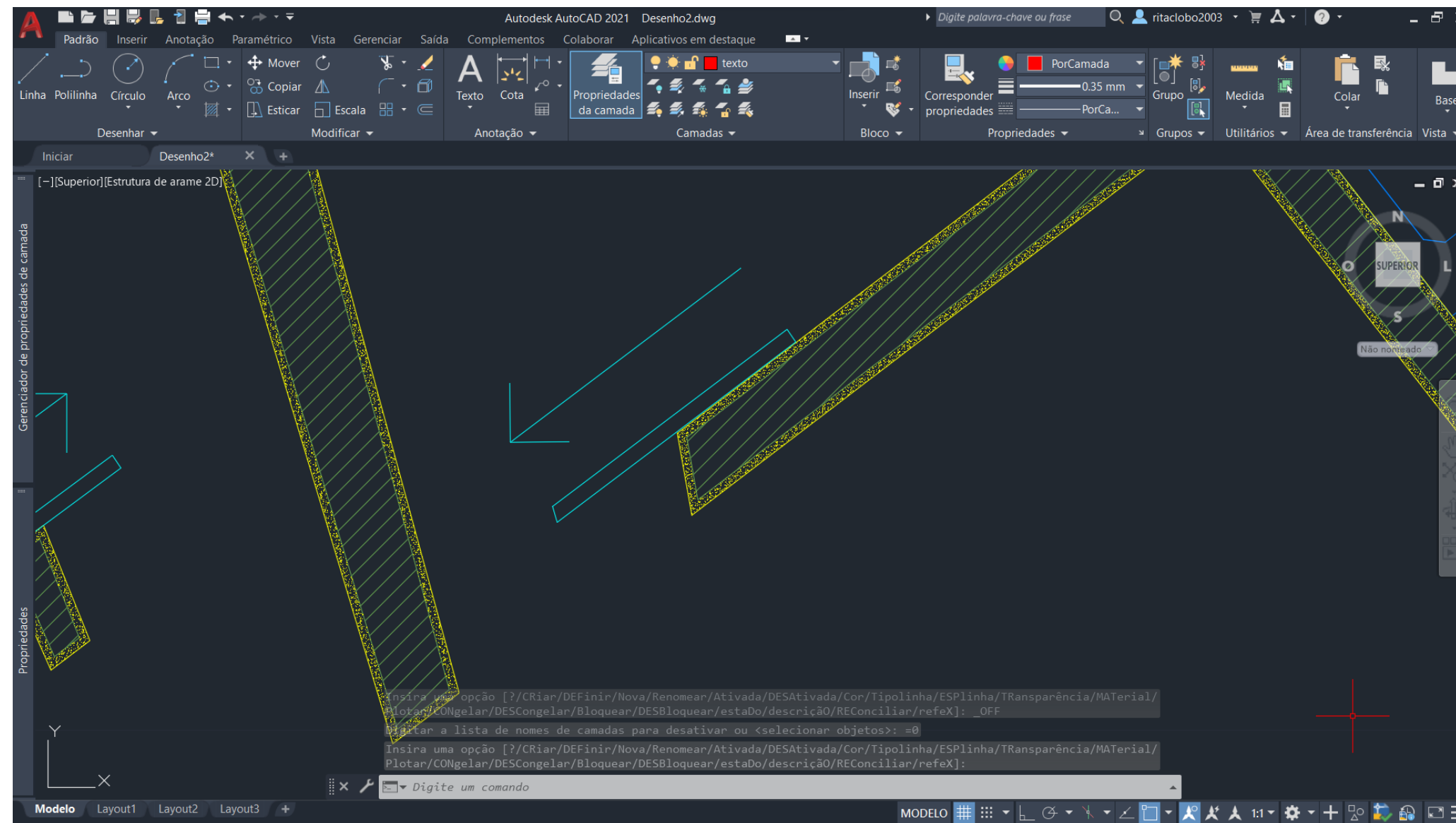
Novos comandos:

- **R (REMOVE)**
- **ZOOM**
- **MVIEW (MAKE VIEW)**
- **VPLAYER (VIEWPORT LAYER)**
- **DTEXT**



Aula 9

- **Aprendizagem das portas de correr, a escalar as plantas no layout e editar canetas**

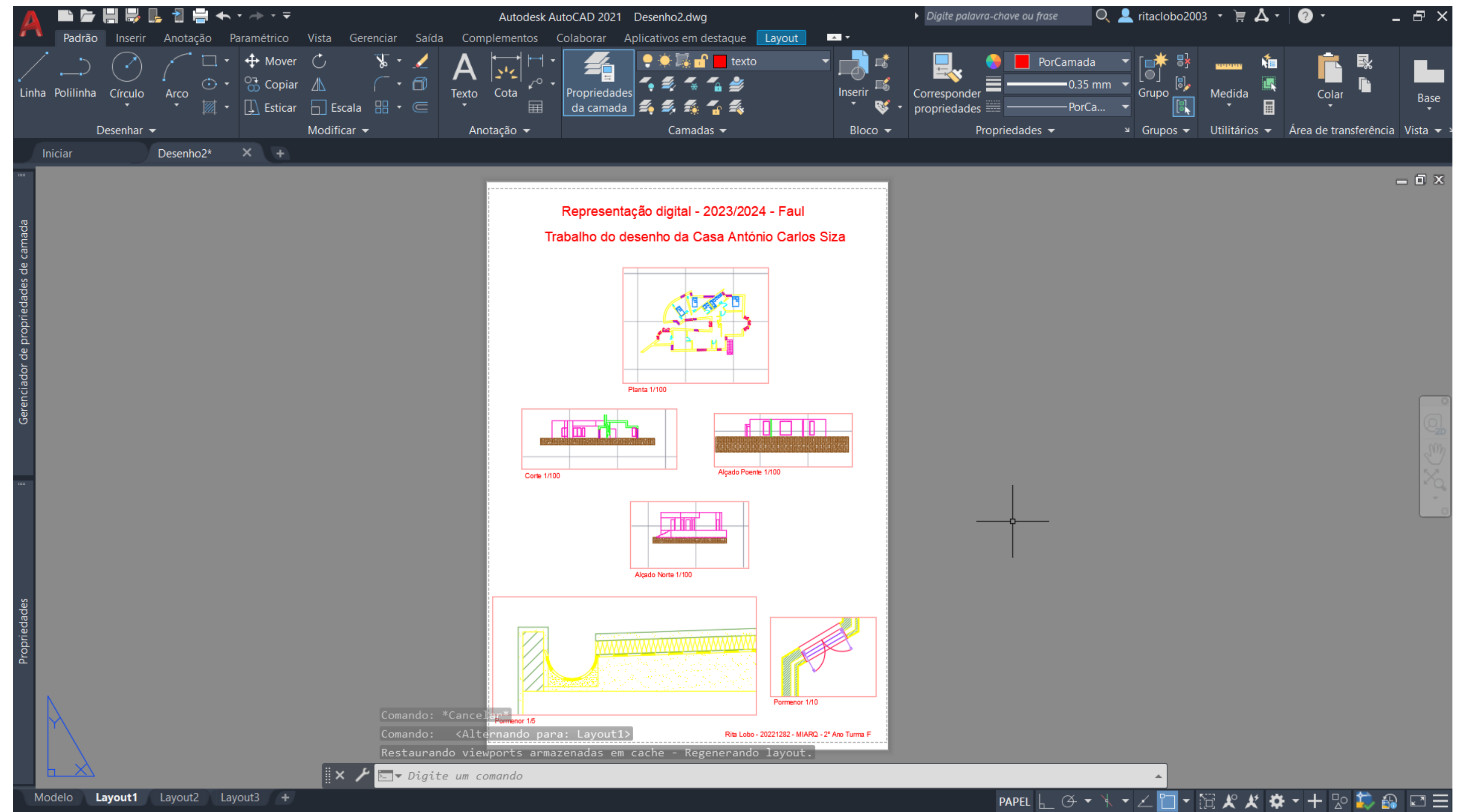


Aula 10

- Aprendizagem de novos comandos e finalização do layout

Novos comandos:

- DIMLIN
- DIMALI
- DIMANG
- DIMSTYLE
- PEDIT

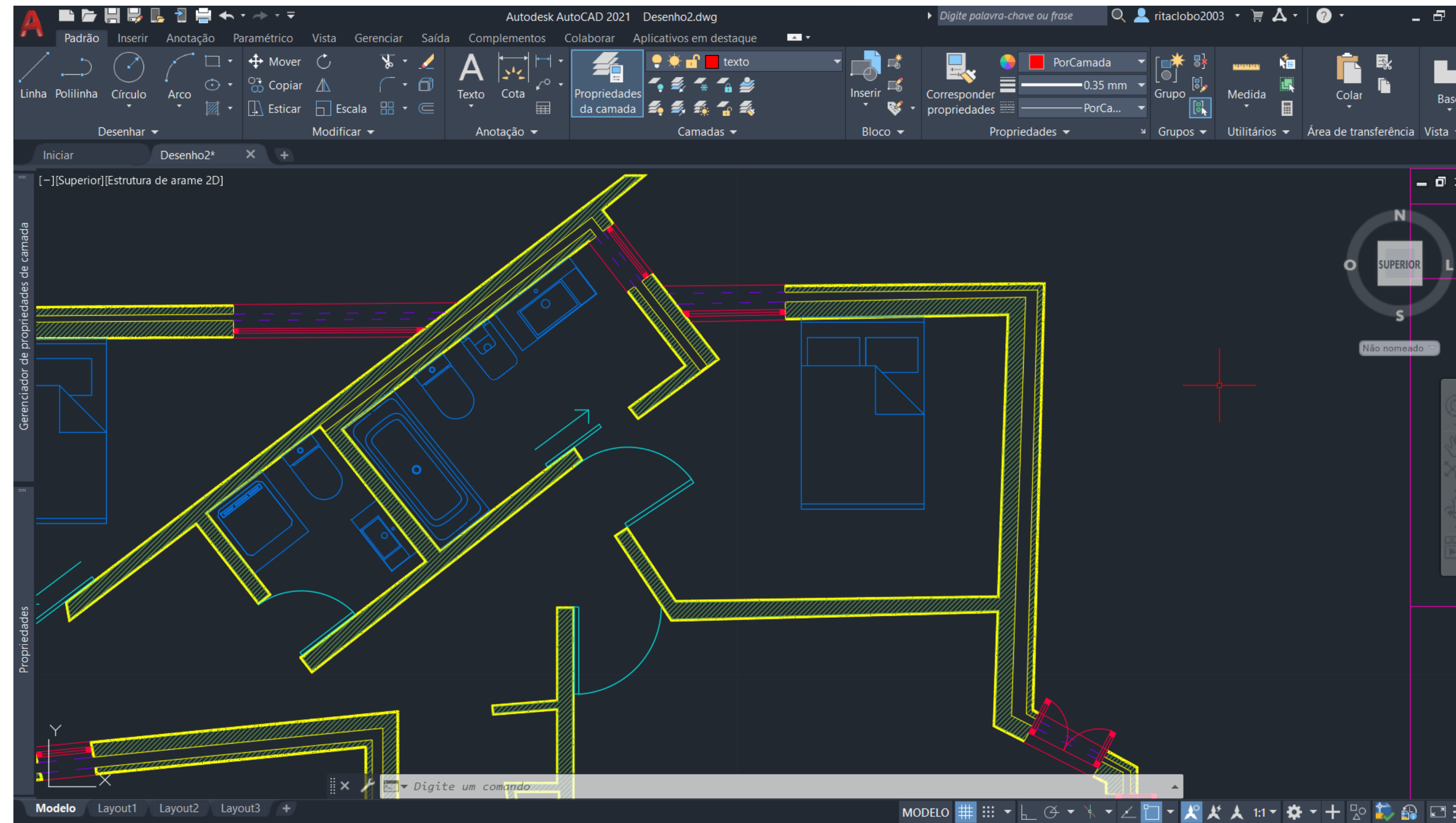


ReDig

Exerc. 1.1 – ACAD 2D

Aula 12

- Colocação de mobílias

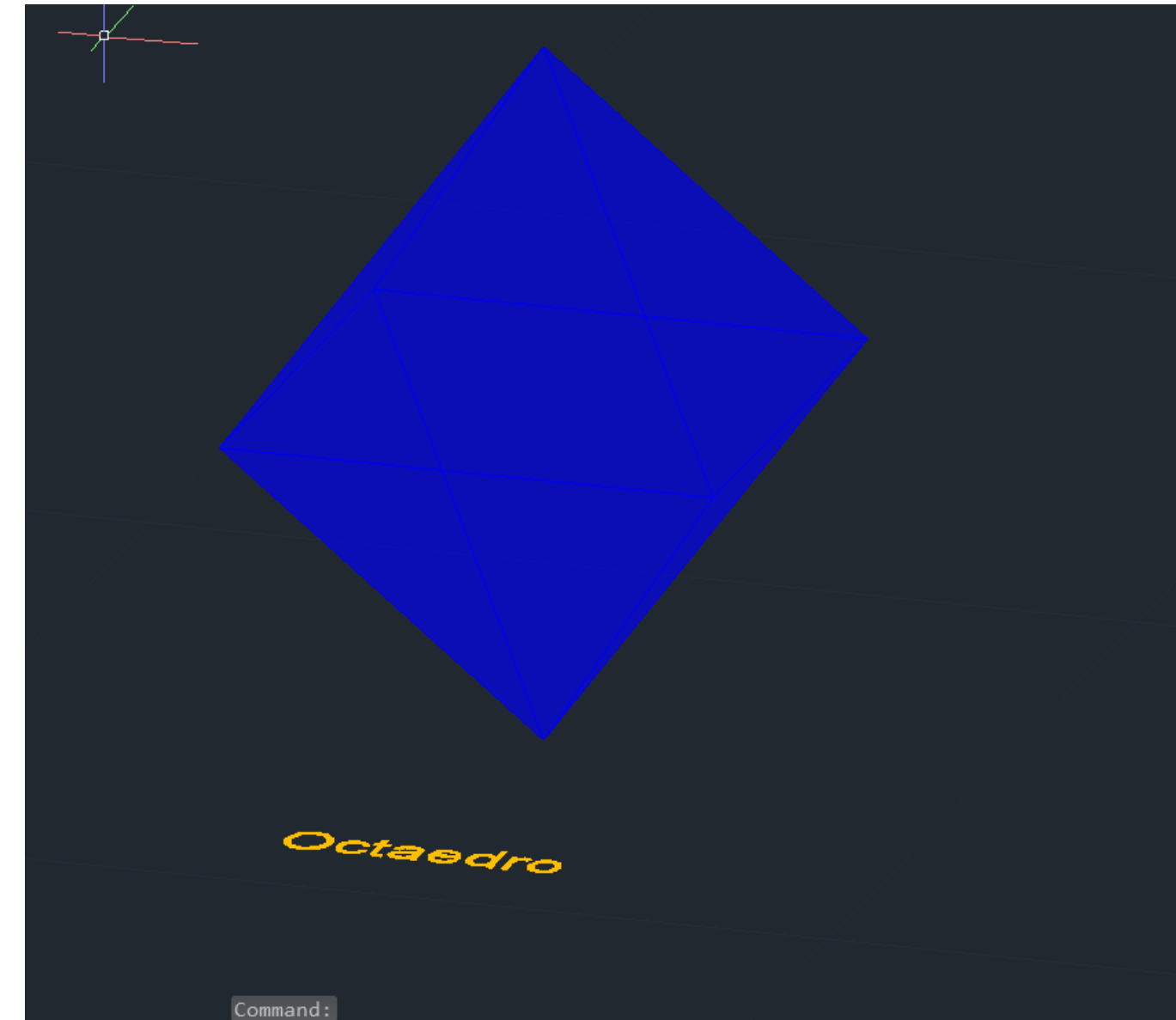
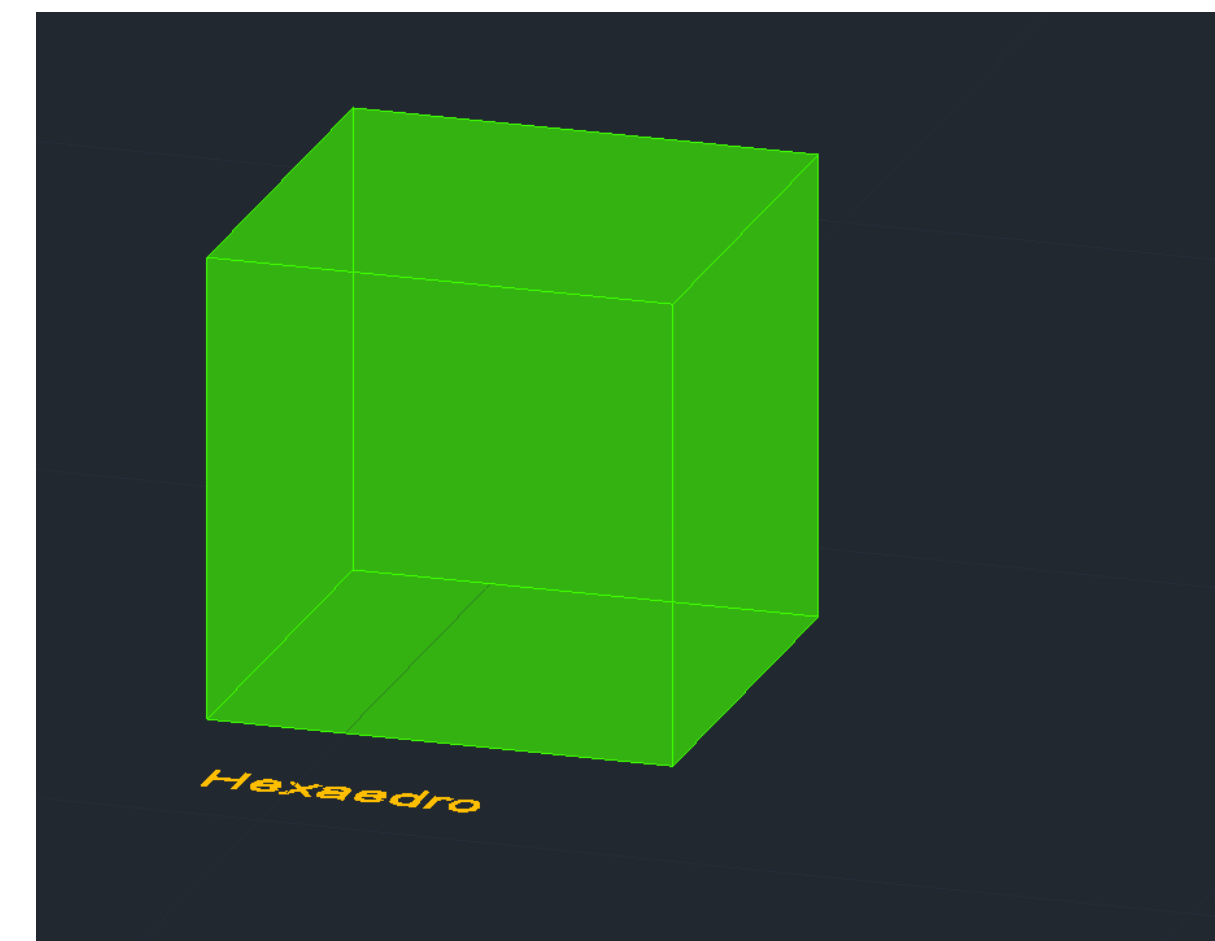
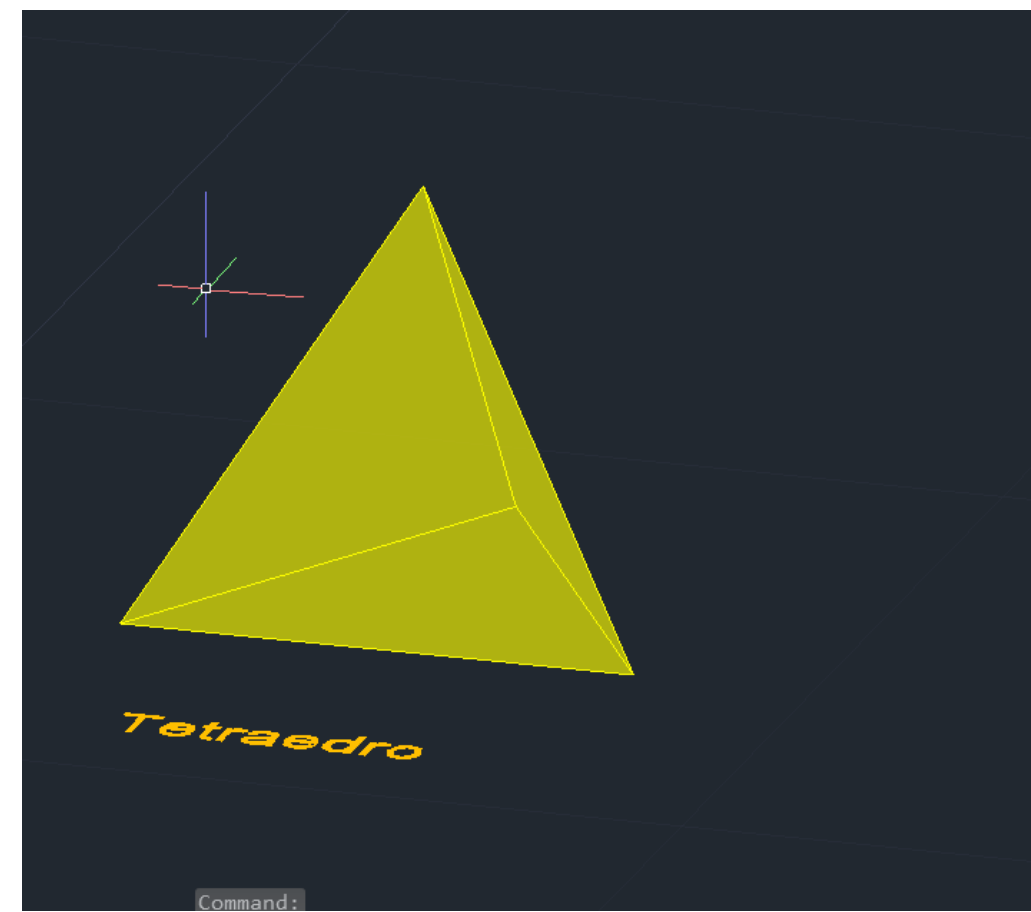


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Exerc. 1.1 – ACAD 2D

Aula 15

- Poliedros regulares:
Tetraedro
Hexaedro
Octaedro
Dodecaedro
Isocaedro

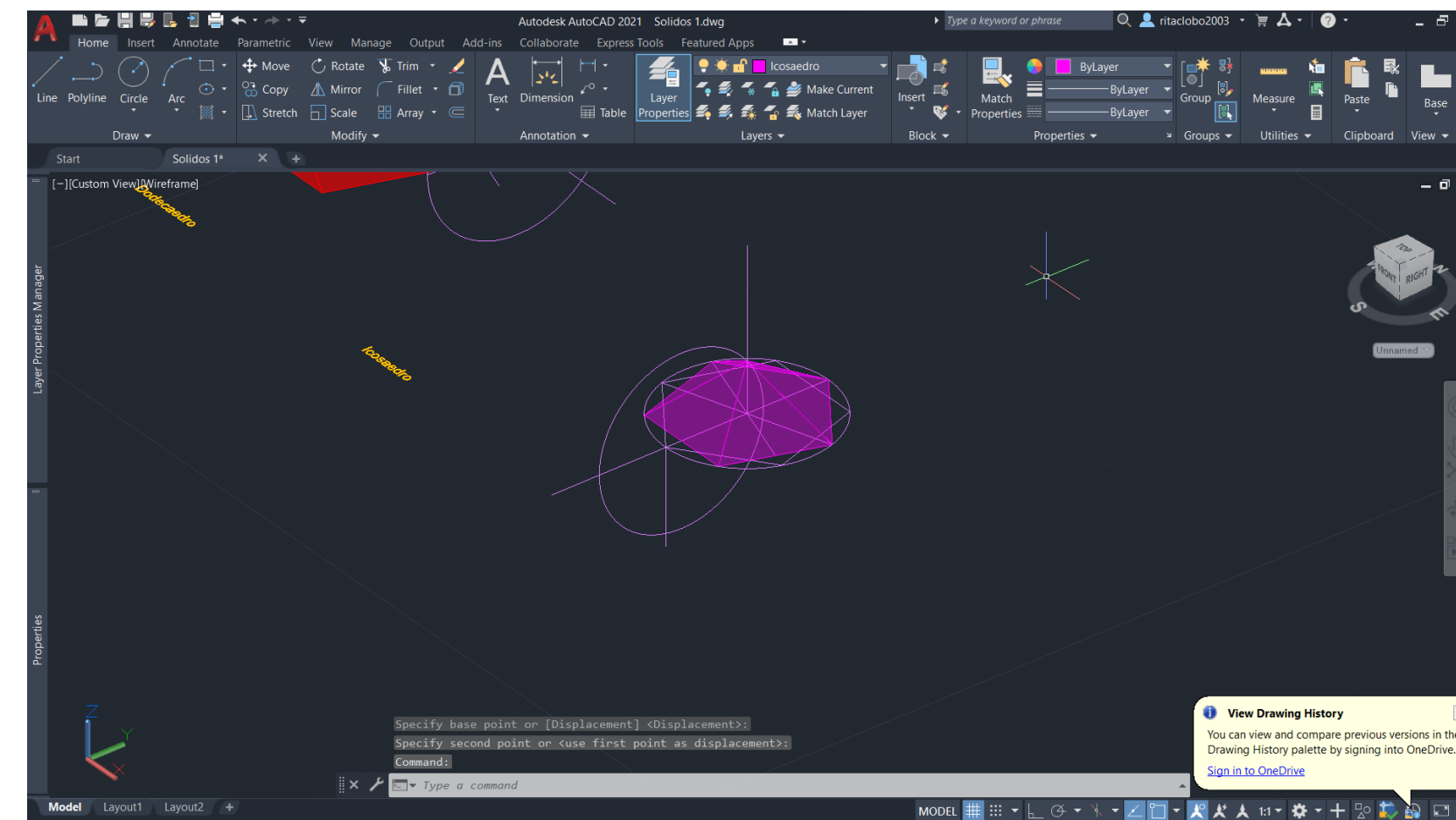
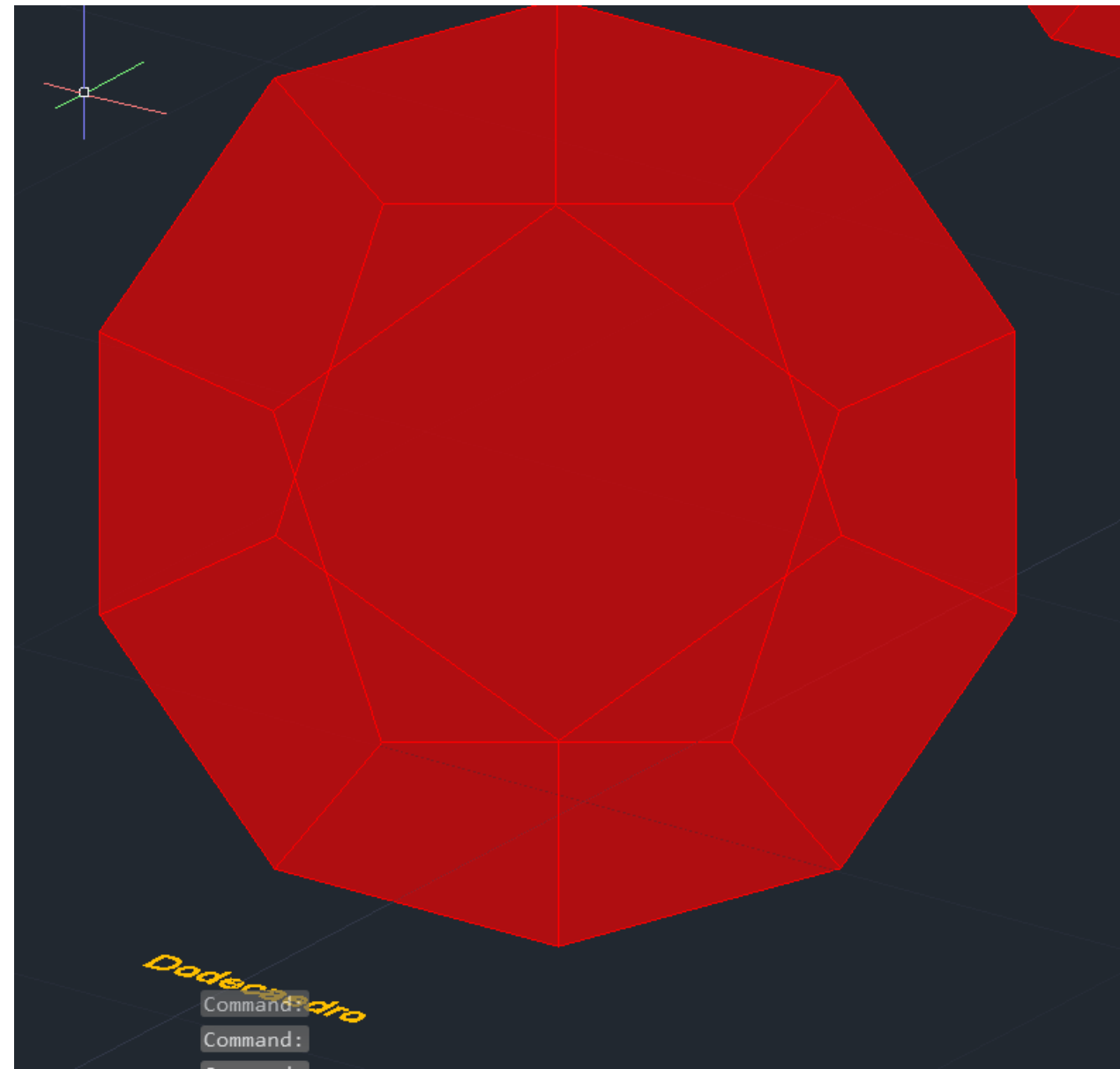
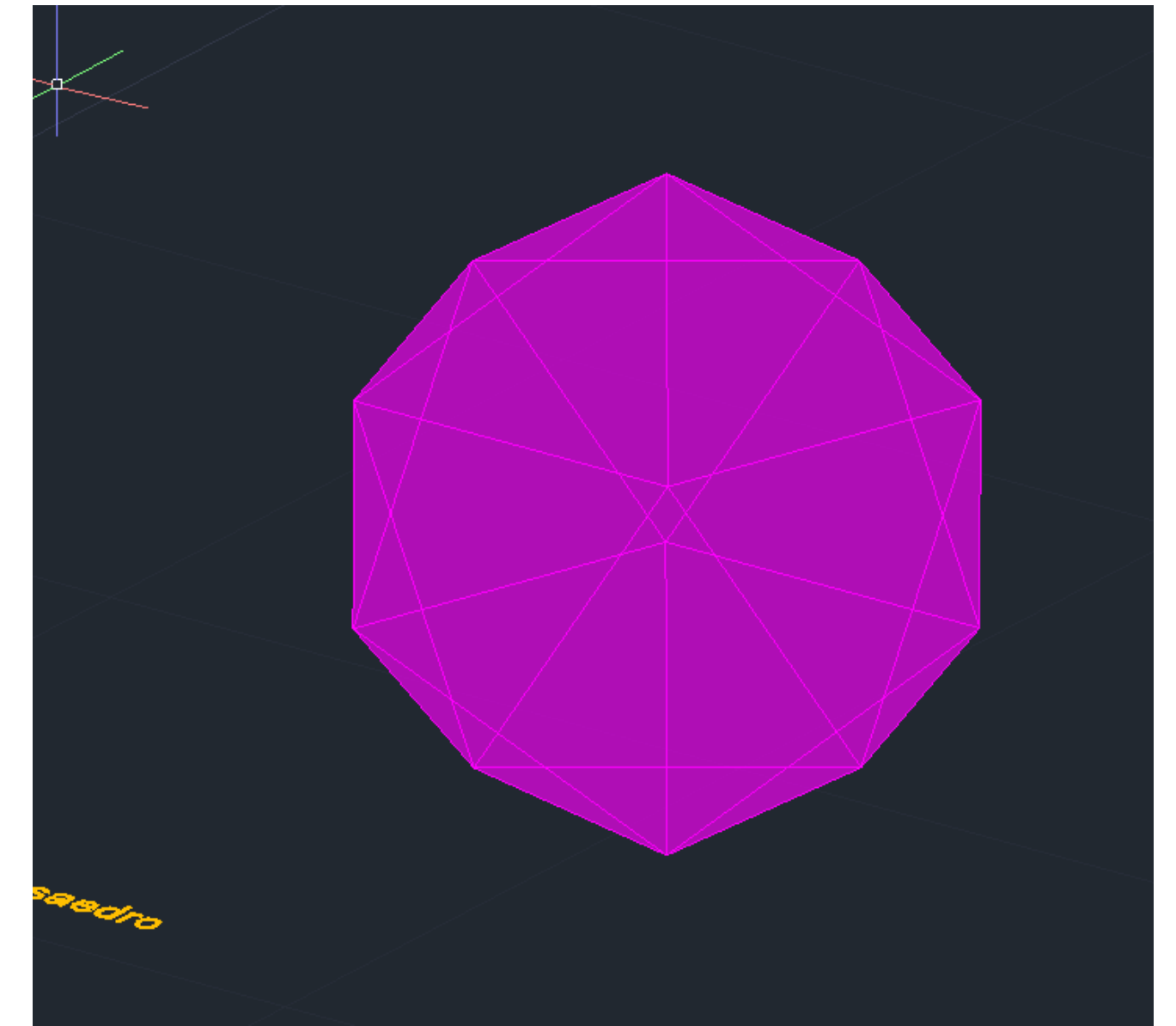
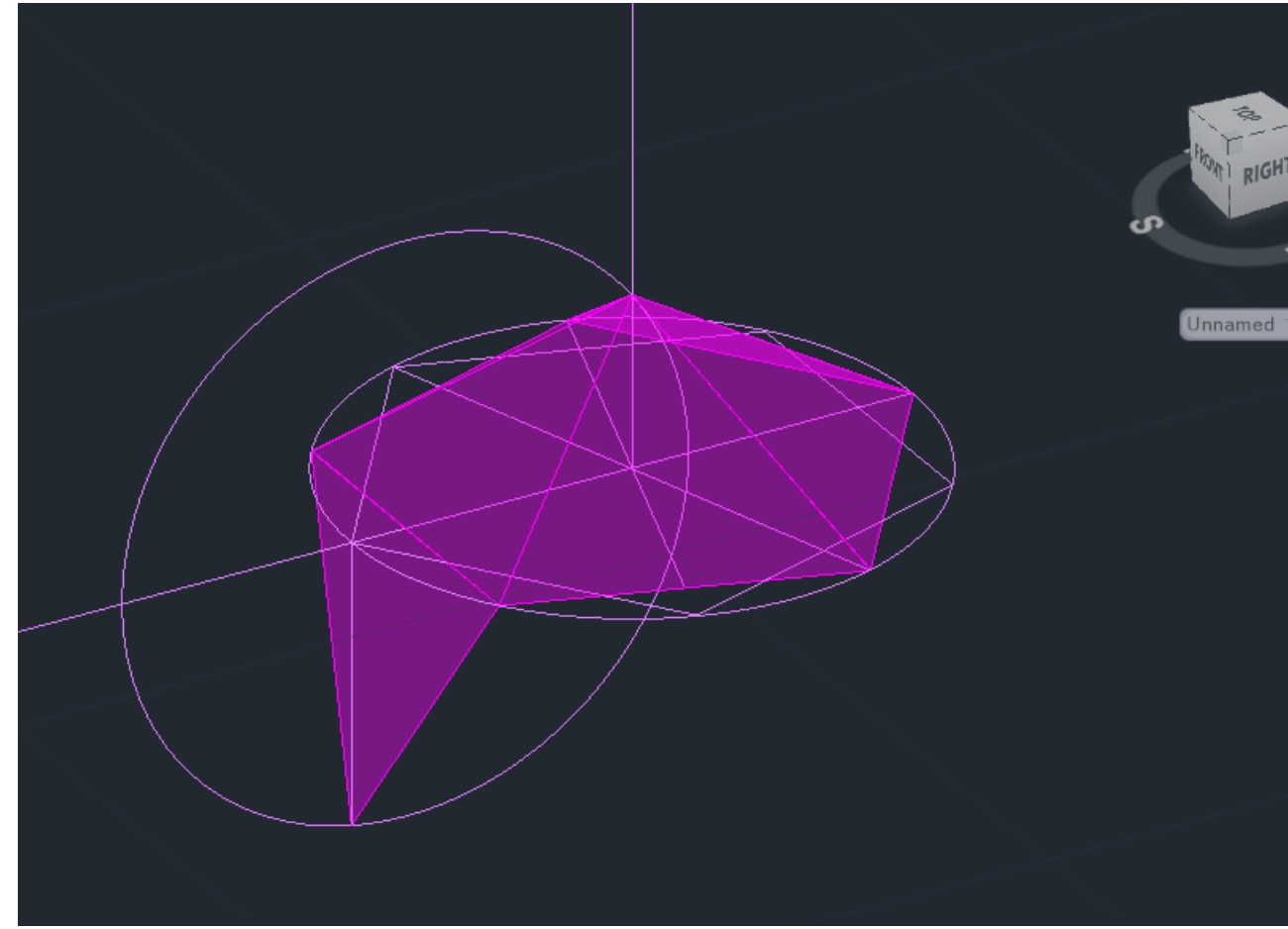


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ACAD 3D

Aula 16

- Poliedros regulares:
 - Tetraedro
 - Hexaedro
 - Octaedro
 - Dodecaedro
 - Isocaedro

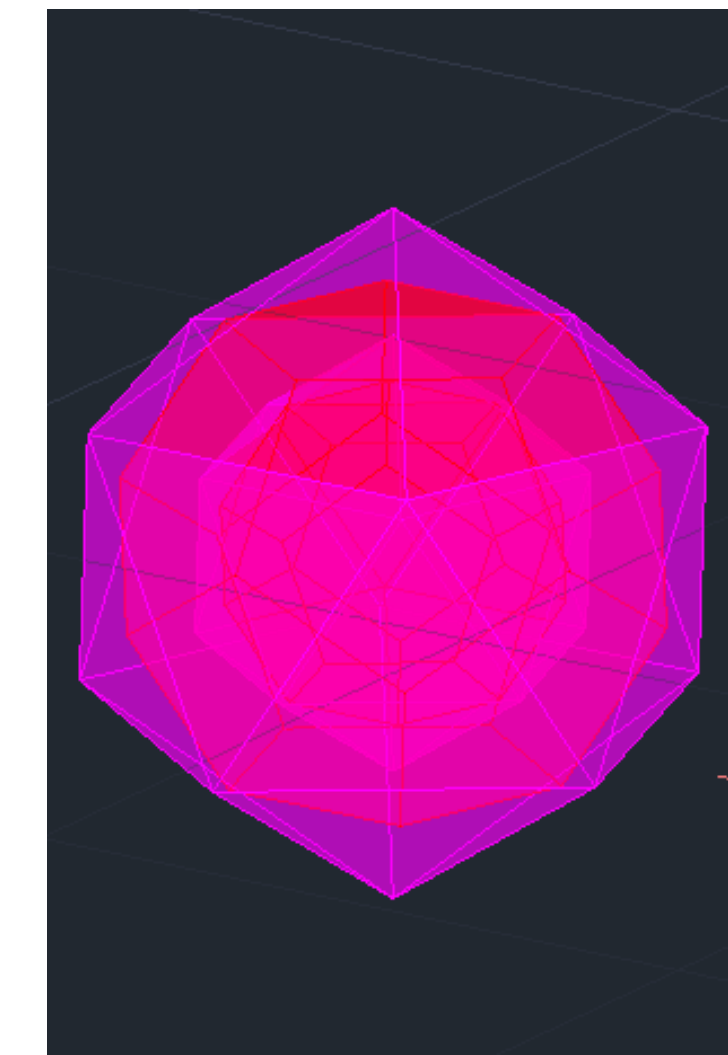
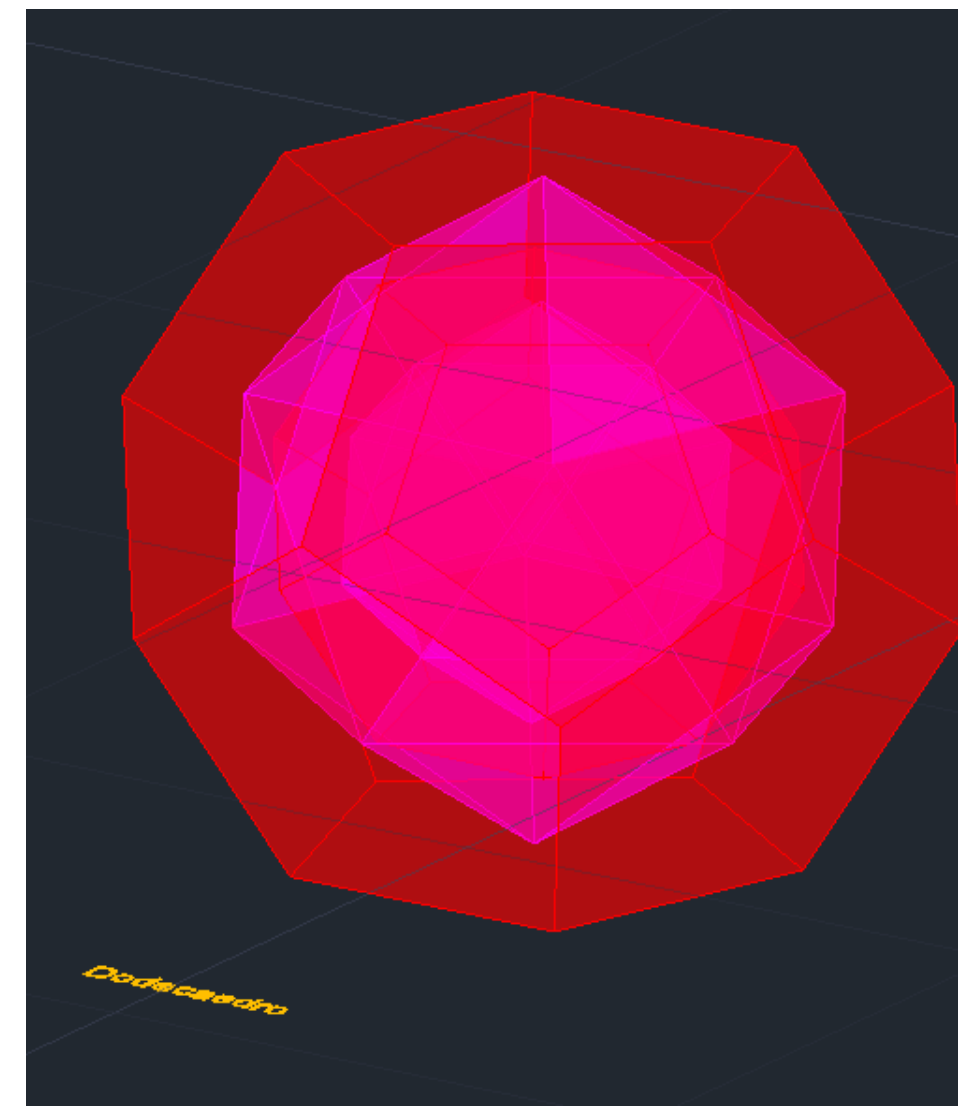
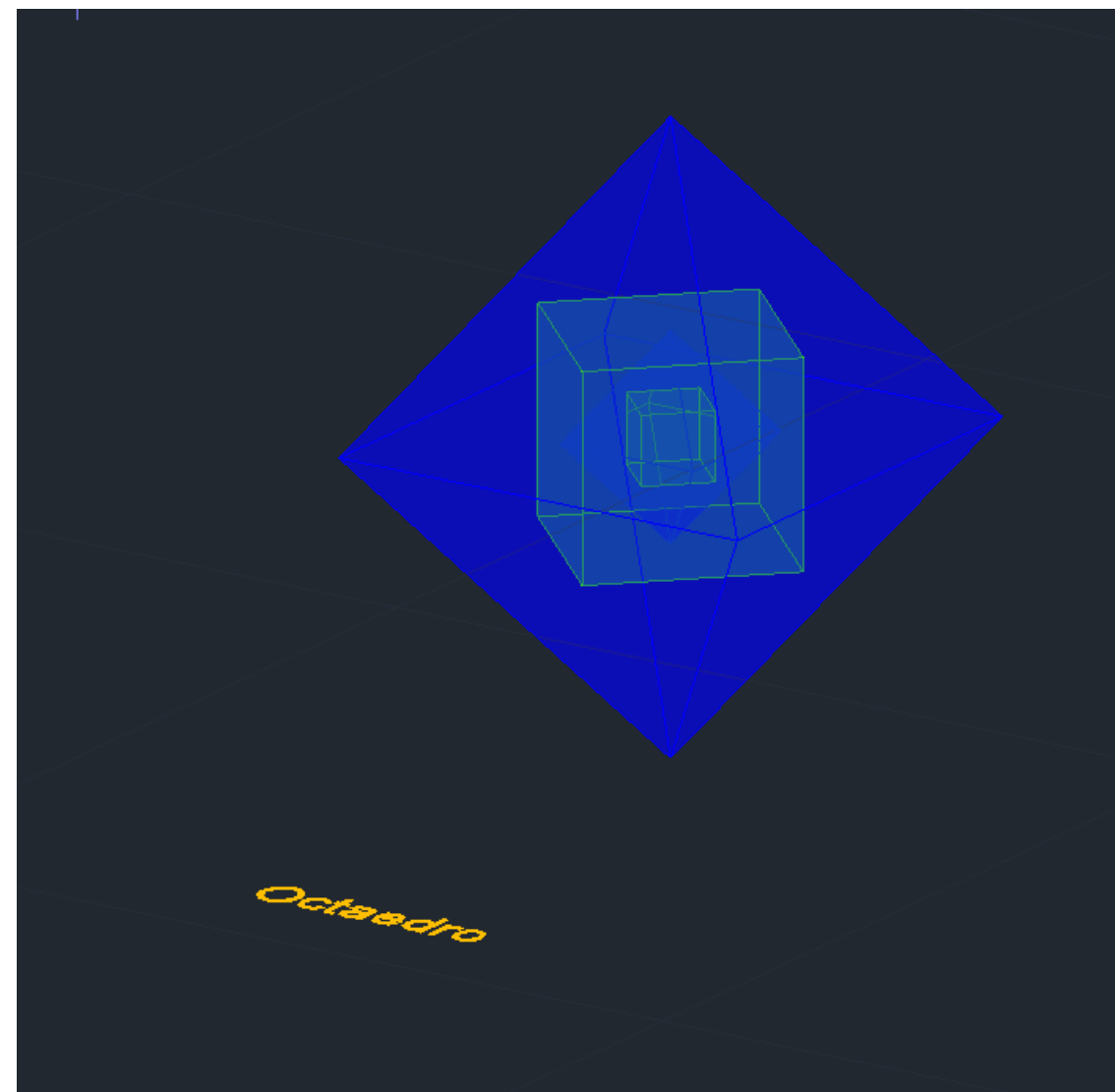
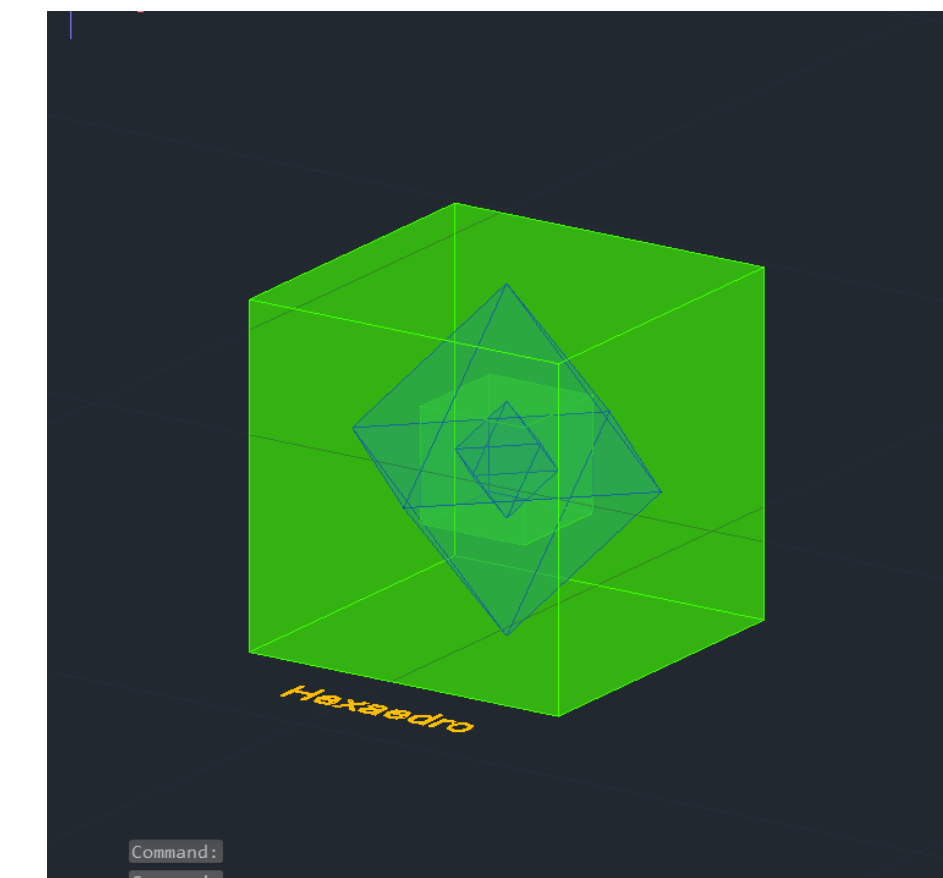
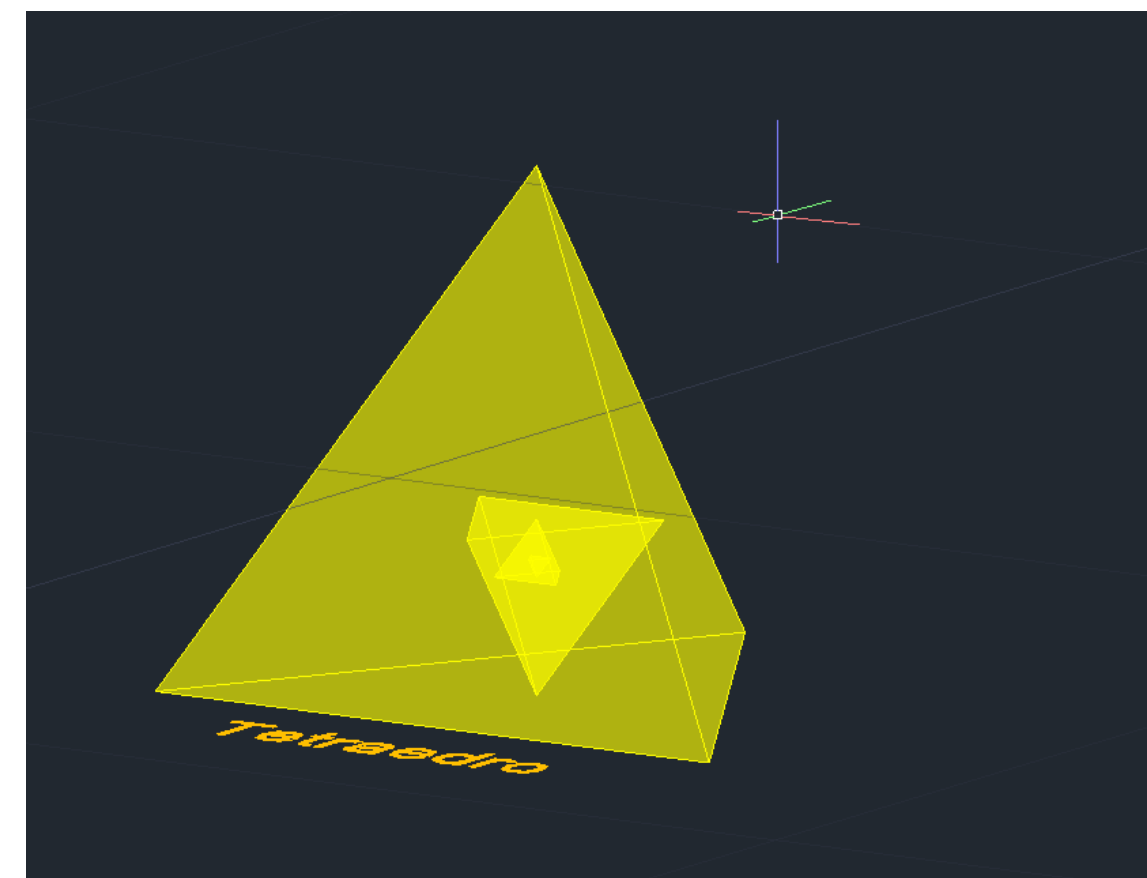


ReDig

ACAD 3D

Aula 17

- Dualidade de poliedros regulares:
- Os vértices de uns são iguais aos números de faces de outro

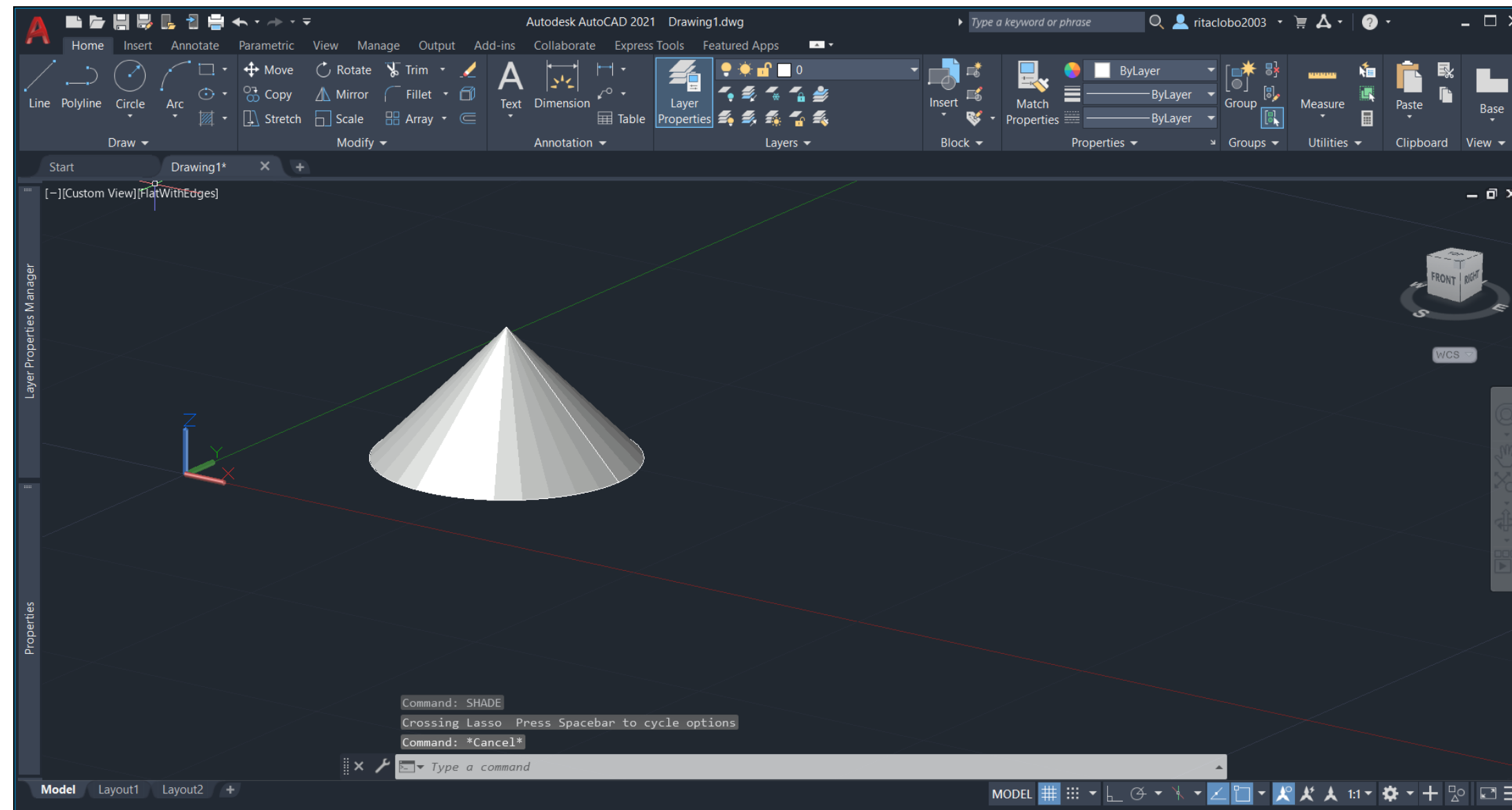


ReDig

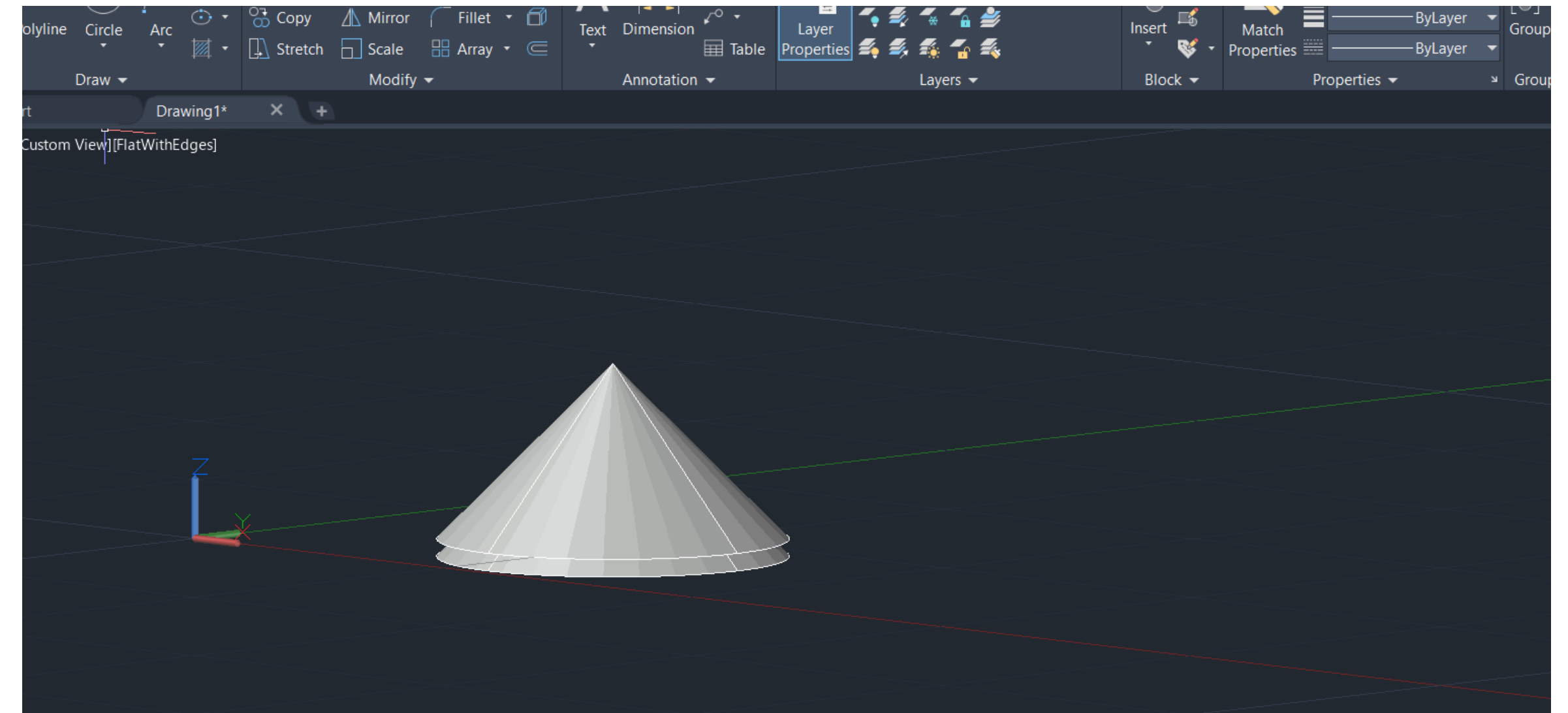
ACAD 3D

Aula 19

- **Aprendizagem do comando CONE**



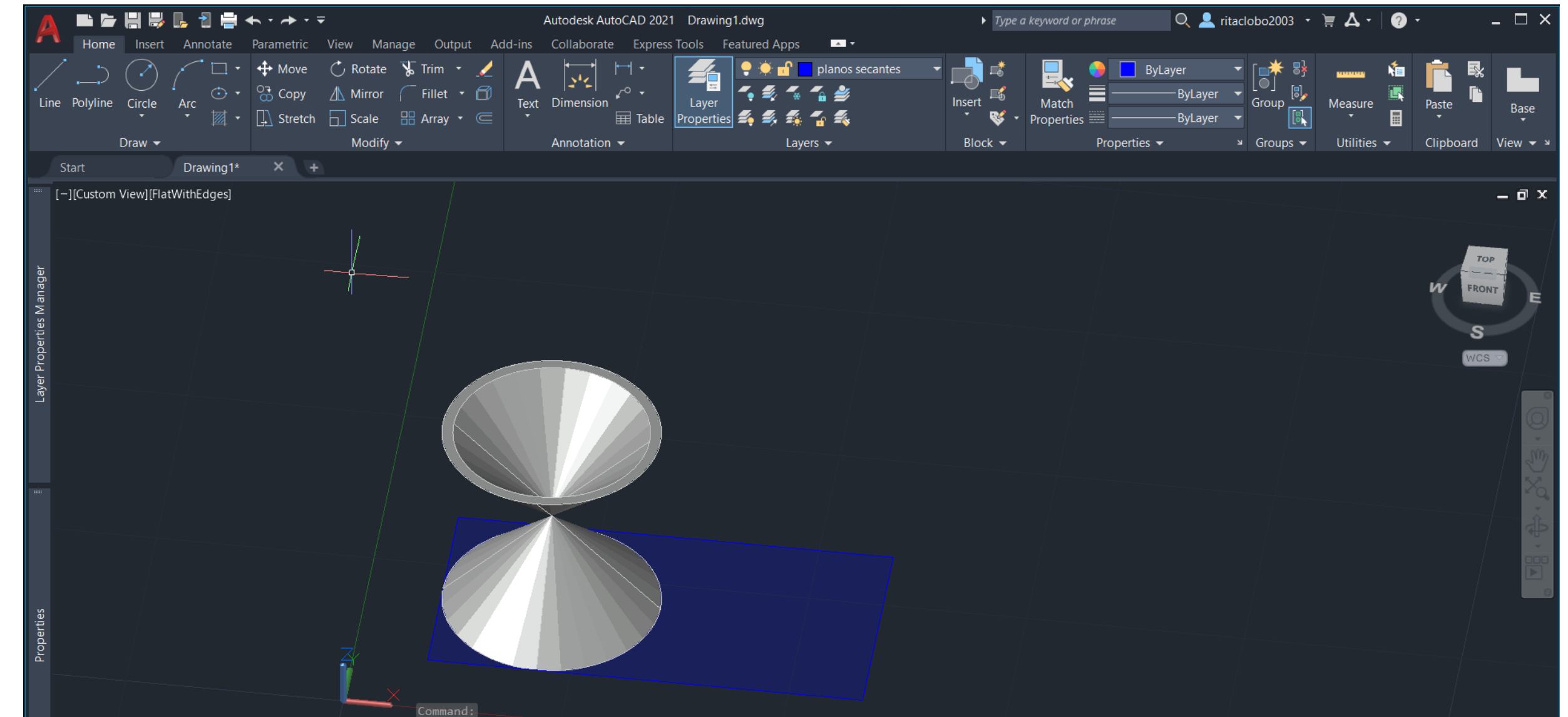
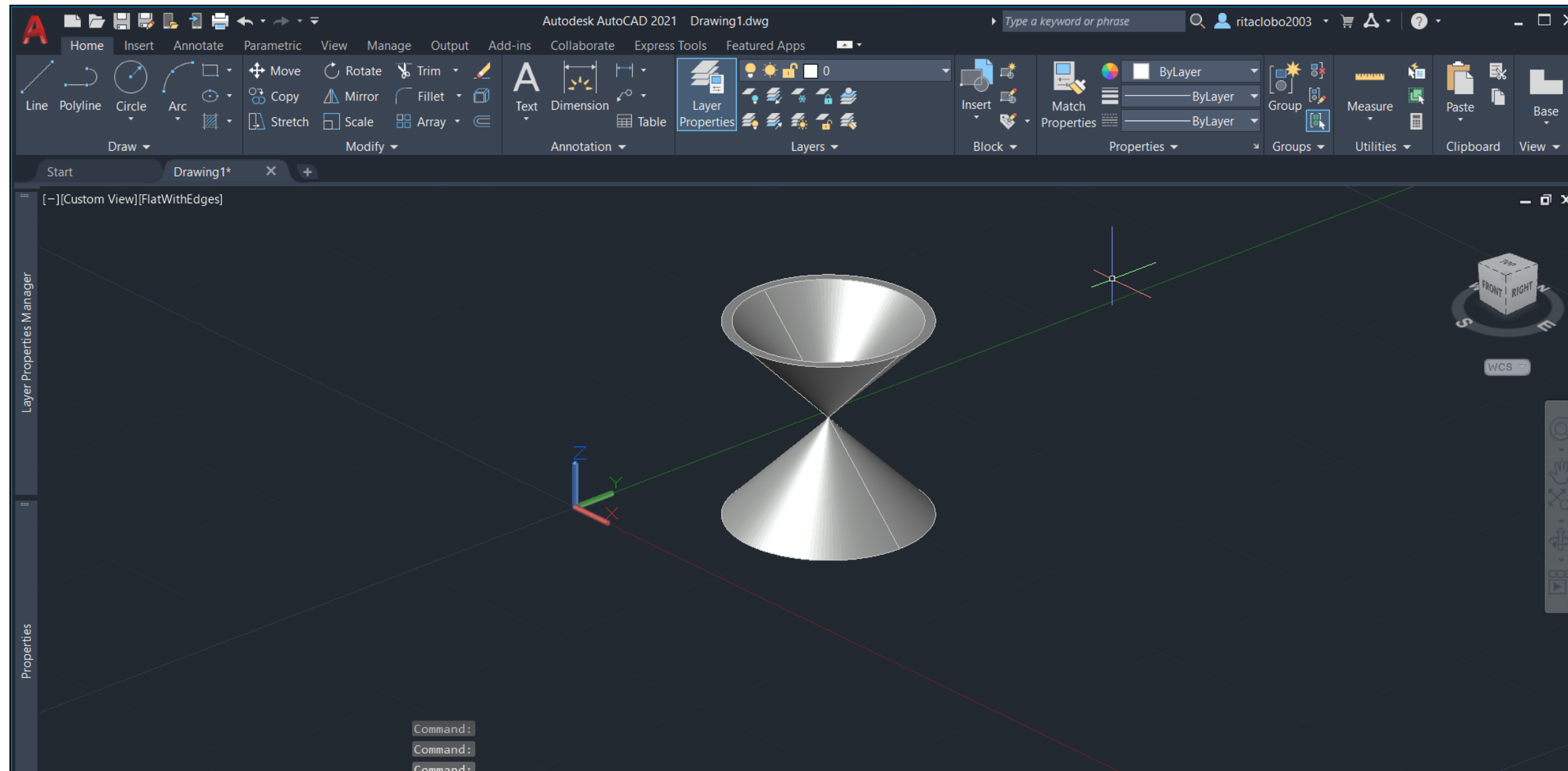
Cone com 5 de raio e 5 de altura



Para pormos o cone maciço copiamos o cone e deslocamos essa copia 0,5 para baixo usando o vertice

Aula 19

Usamos o 3DMIRROR para fazer a figura e fizemos um plano de 10x20 e movemos esse plano para baixo do solido

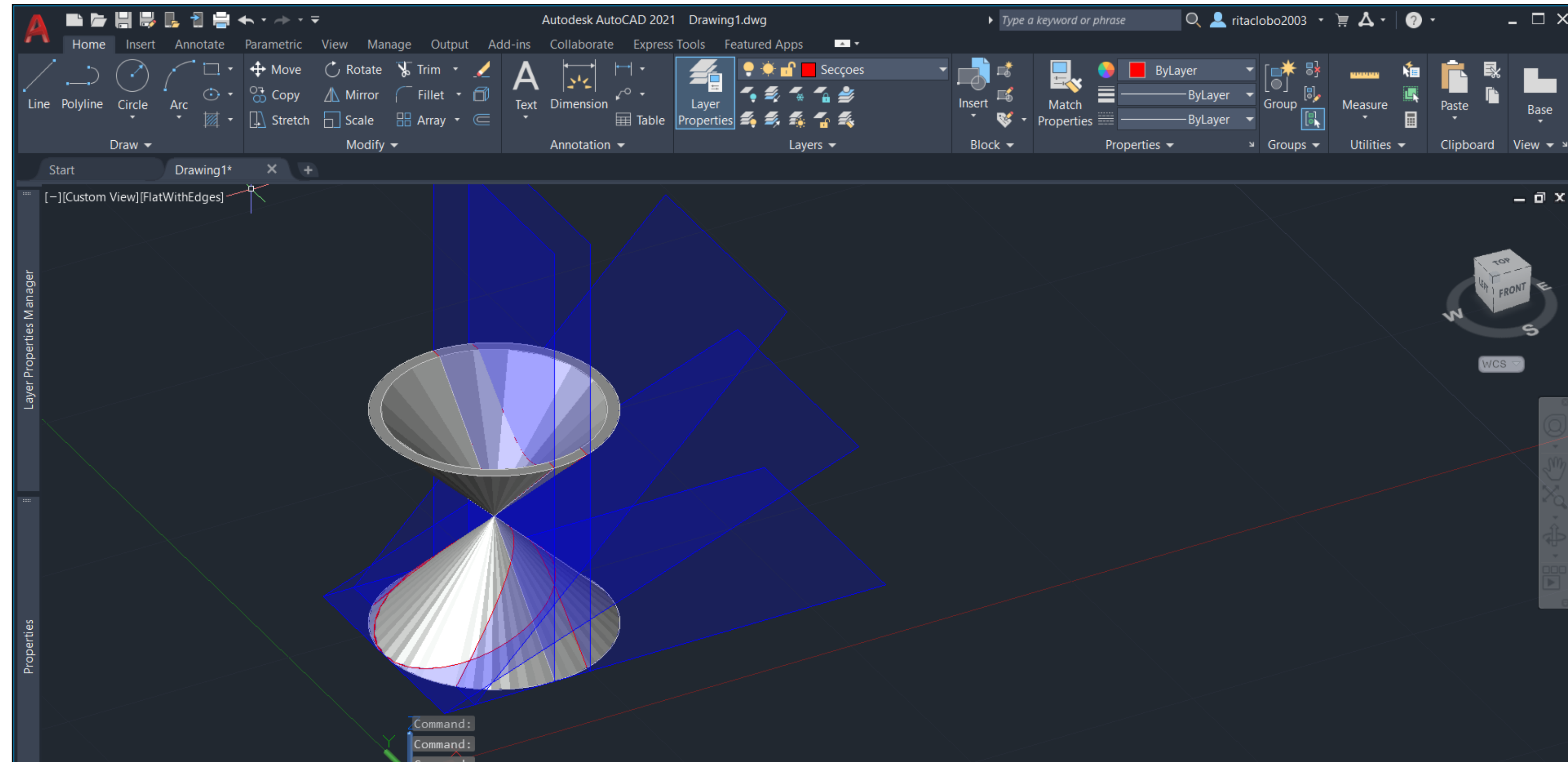


ReDig

ACAD 3D

Aula 19

Fomos duplicando o plano de forma a seccionar o solido e fazendo assim um circulo, uma elipse, uma parábola, uma hiperbólica e retas

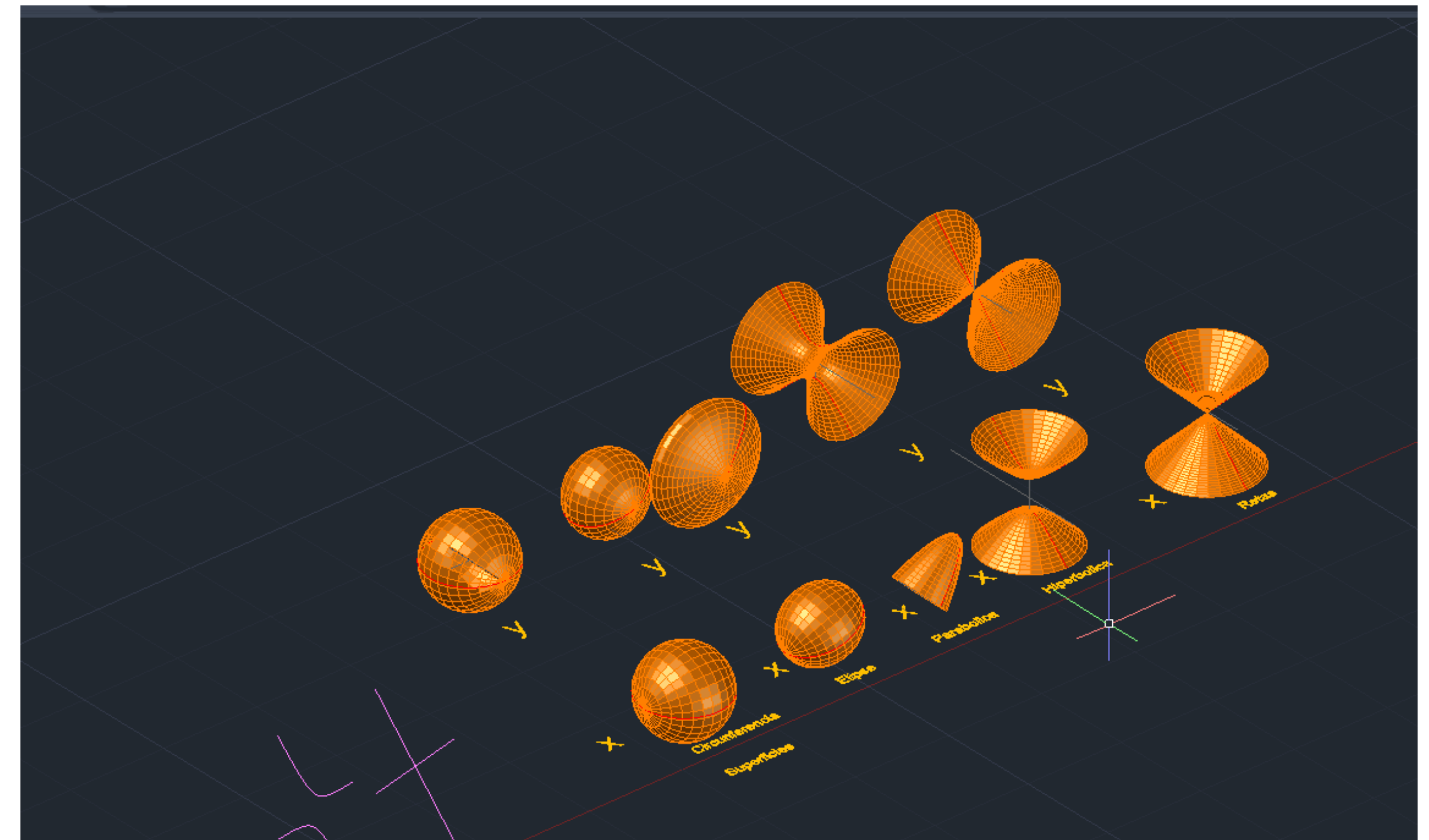
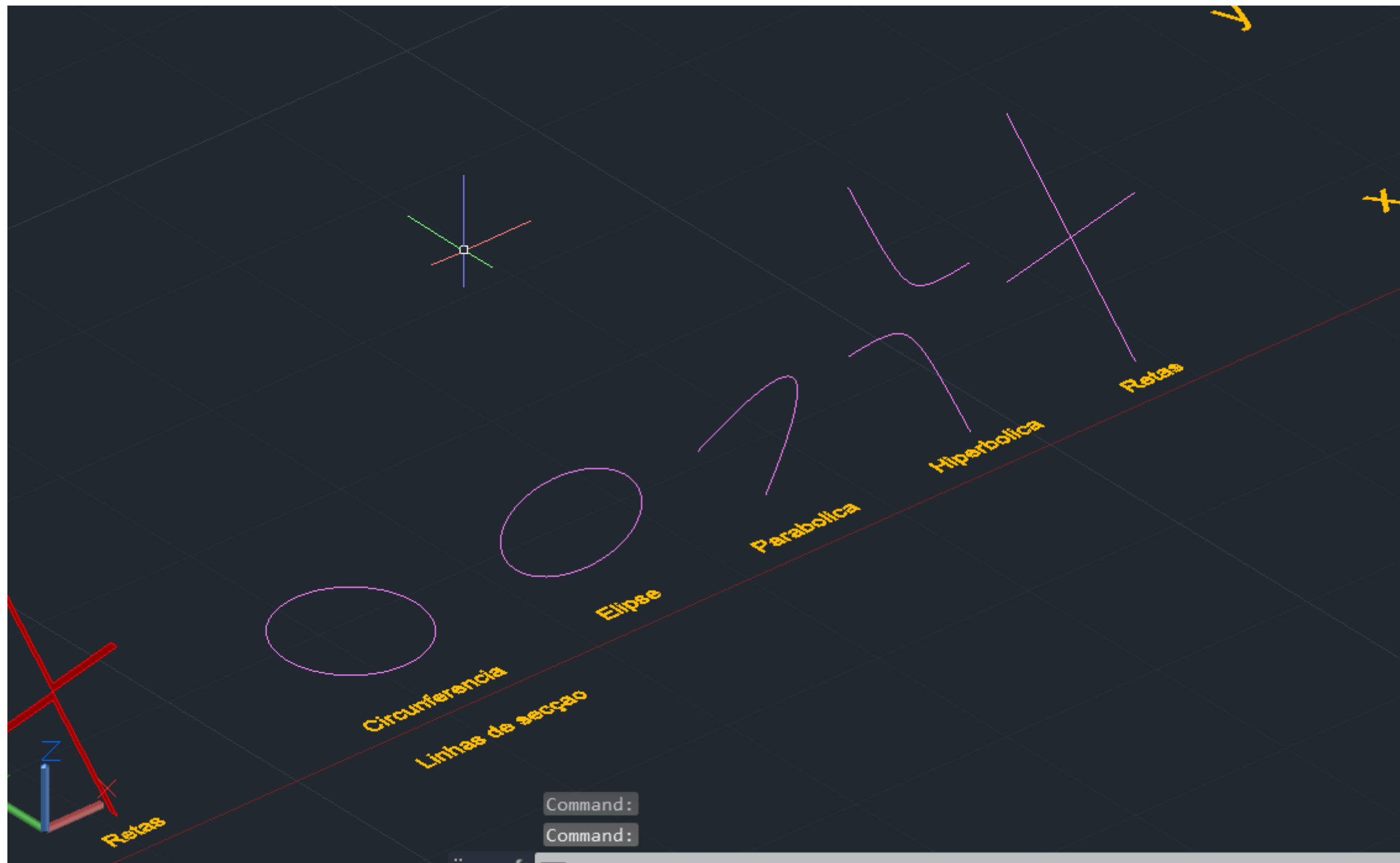


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ACAD 3D

Aula 19

- Com a ferramenta SECTION fizemos então as secções respetivas a cada plano
- Fizemos SRFTAB1 -30, SURFTAB2 -30 e REVSURF a volta do eixo

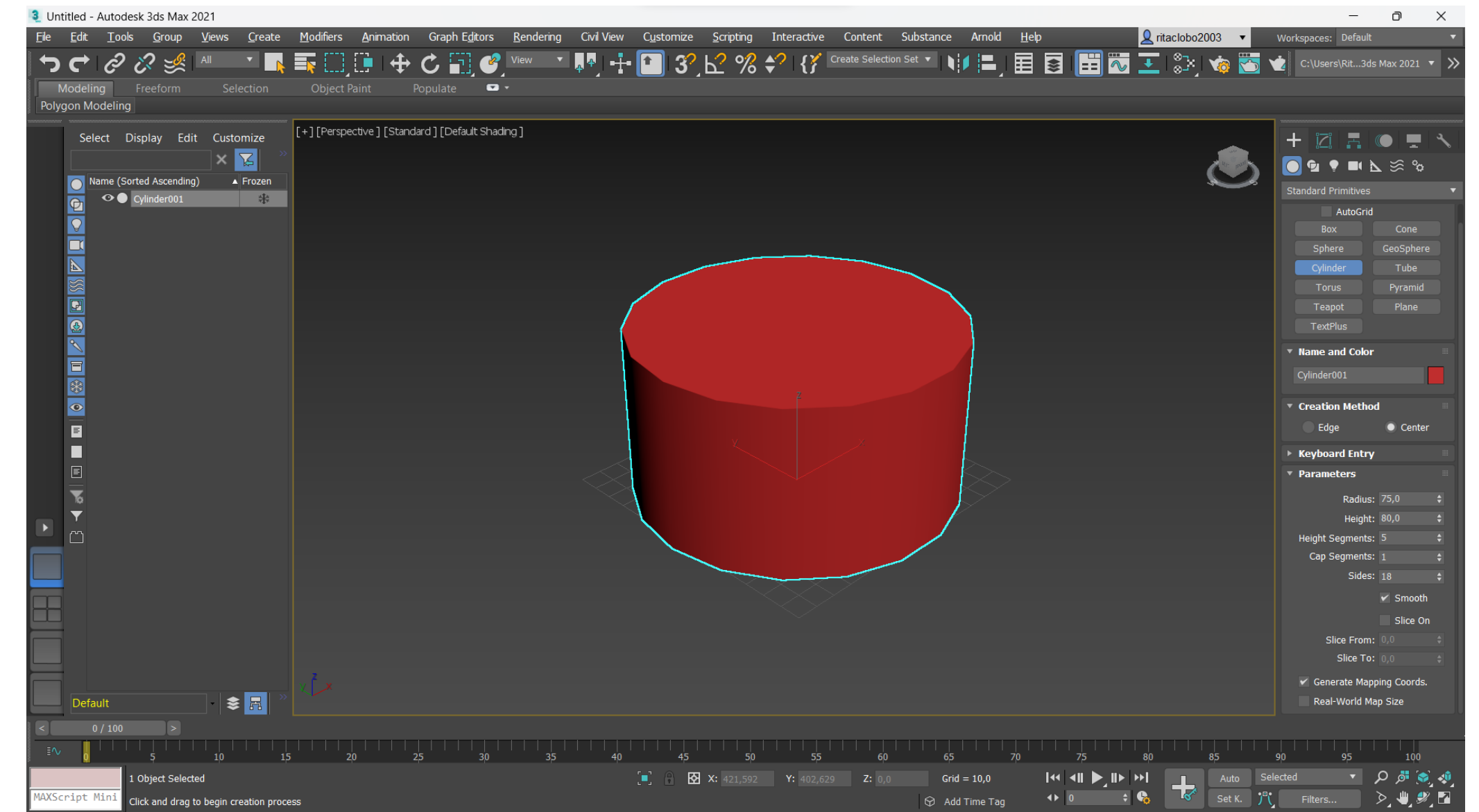
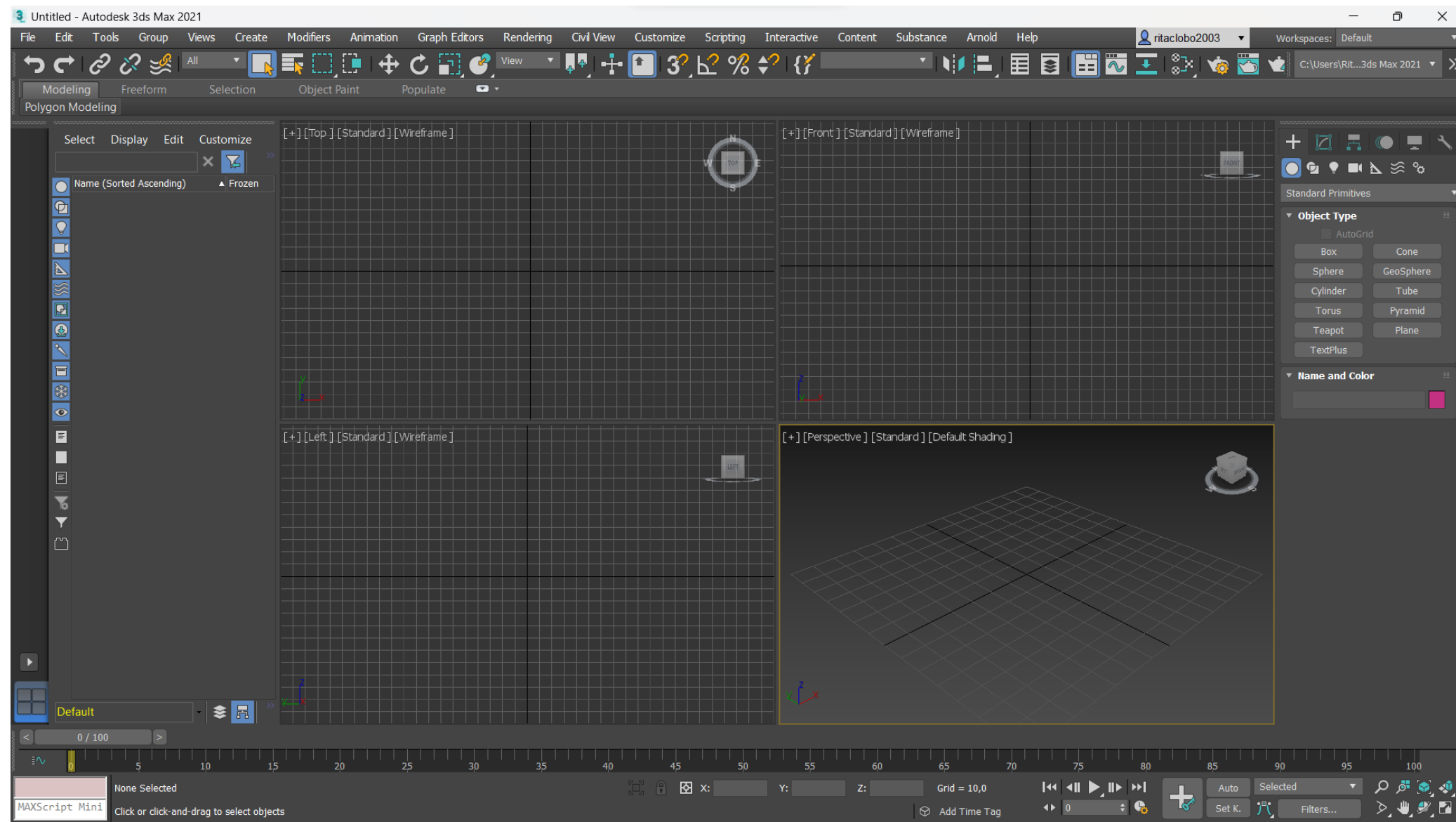


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ACAD 3D

Aula 20

- Iniciação ao 3DSMAX
- Criação de uma lamparina

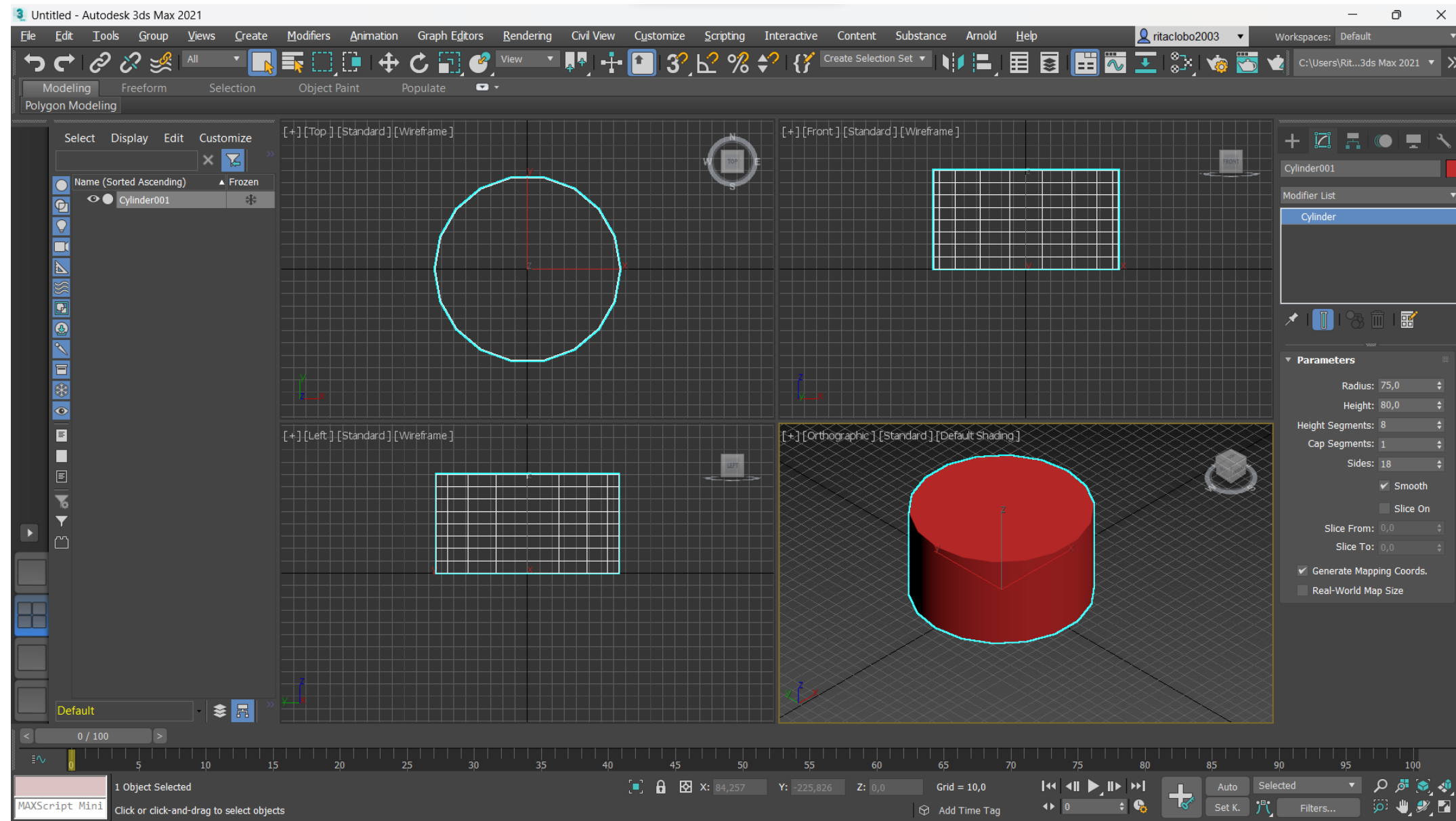


Cilindro comm 75 de raio e 80 de altura

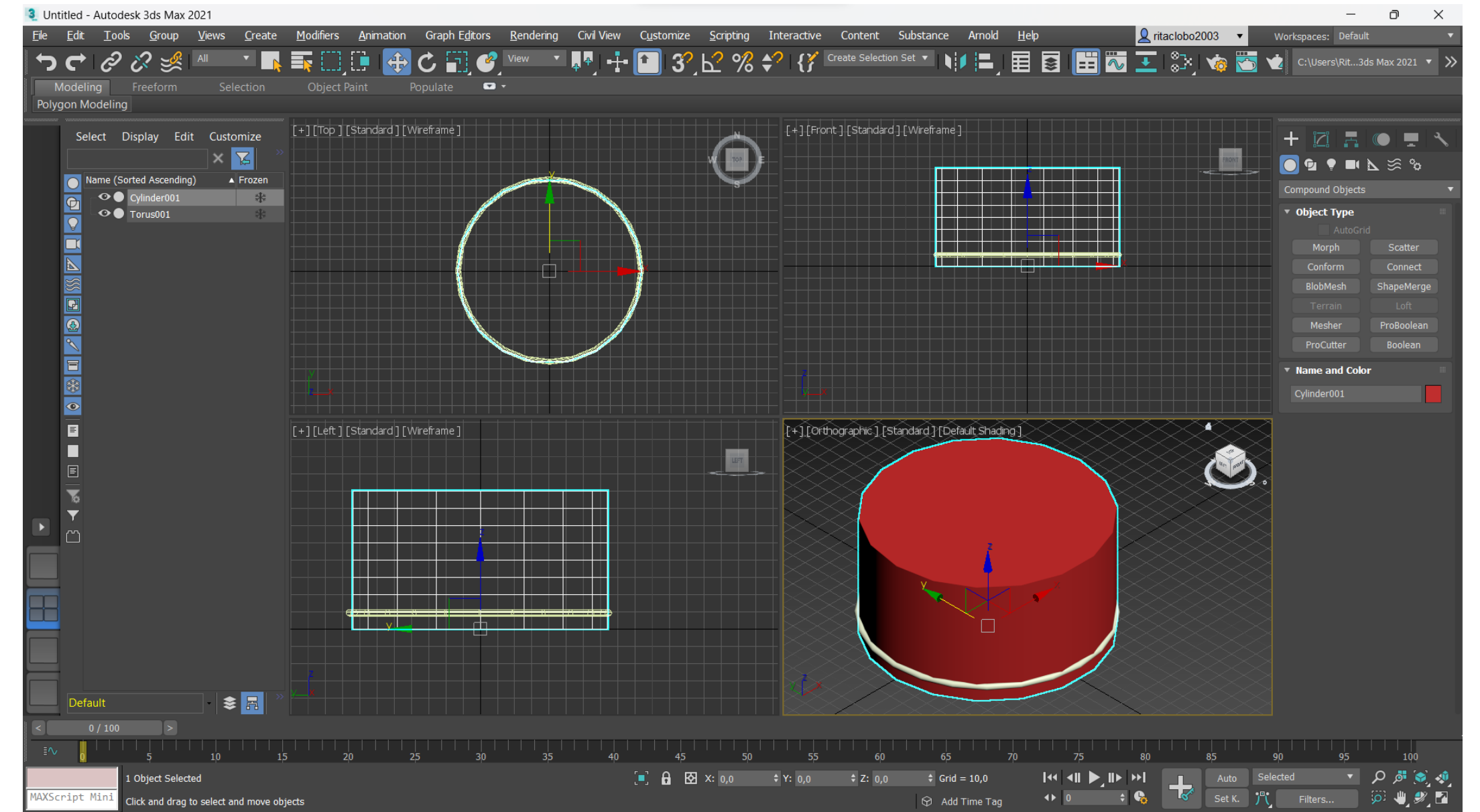
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ACAD 3D

Aula 20



Colocamos o cilindro com 8 Height Segments

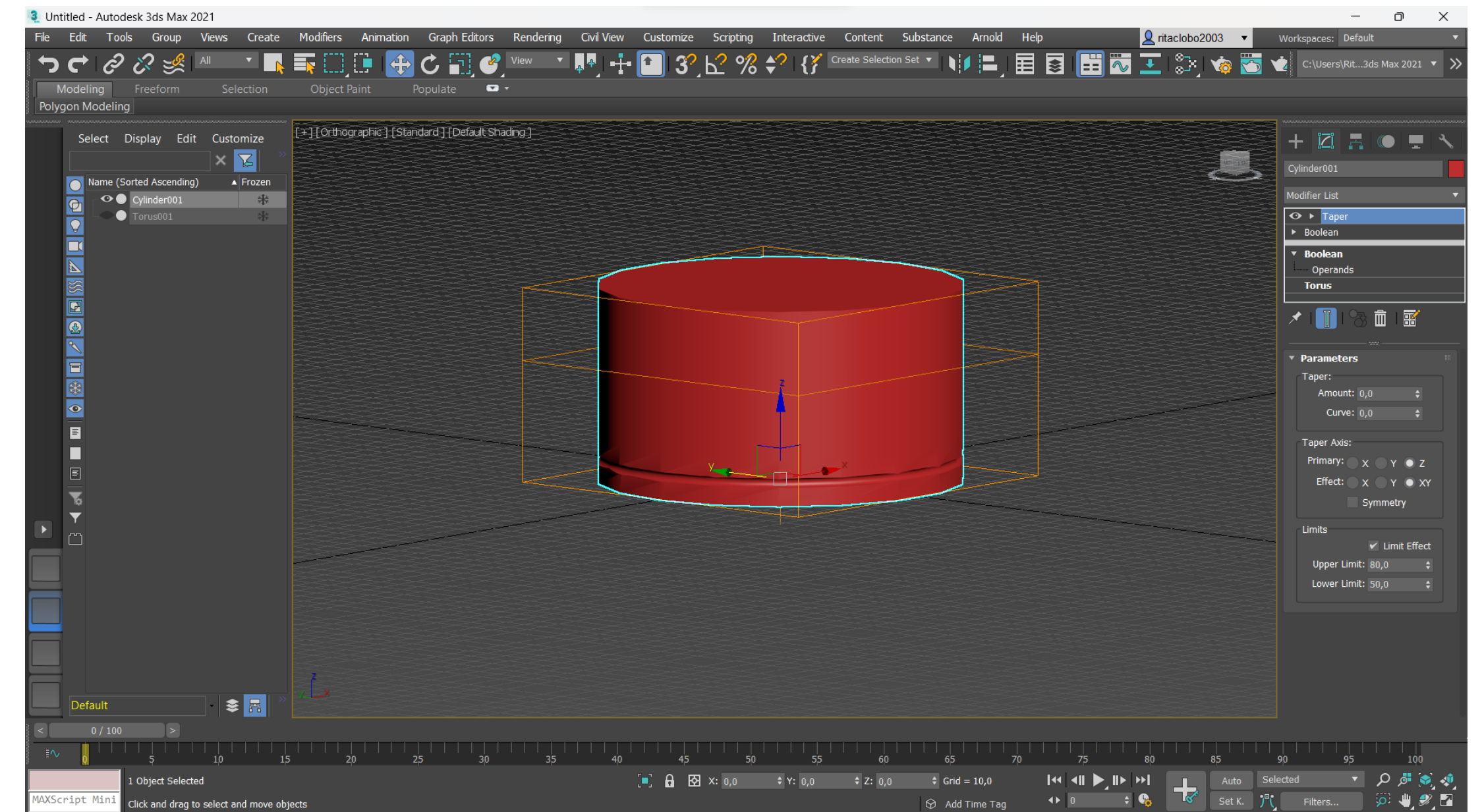
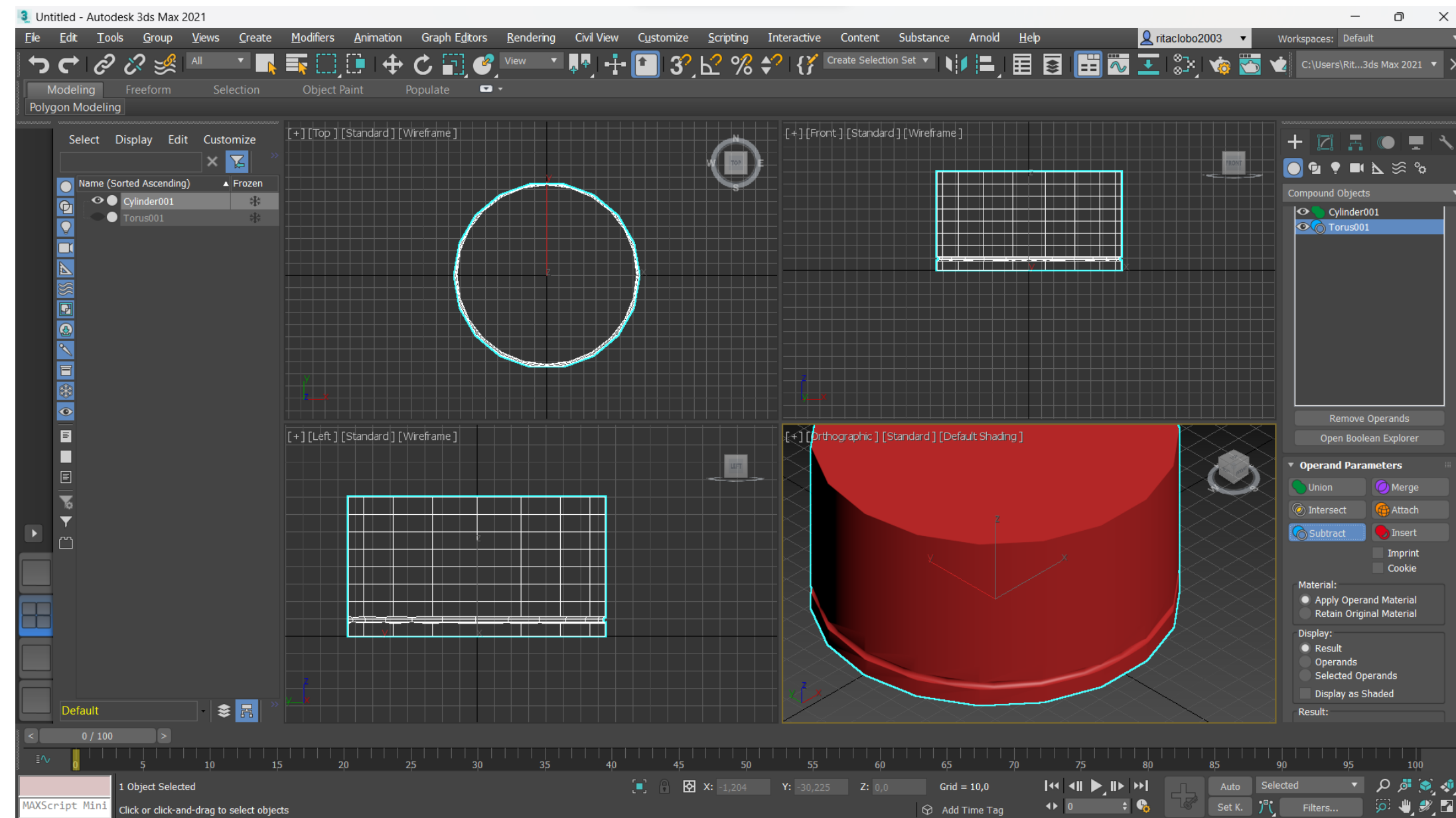


Criamos TORUS com raio1 de 75 e raio2 de 2 e com o SELECT AND MOVE movemos o objeto

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ACAD 3D

Aula 20

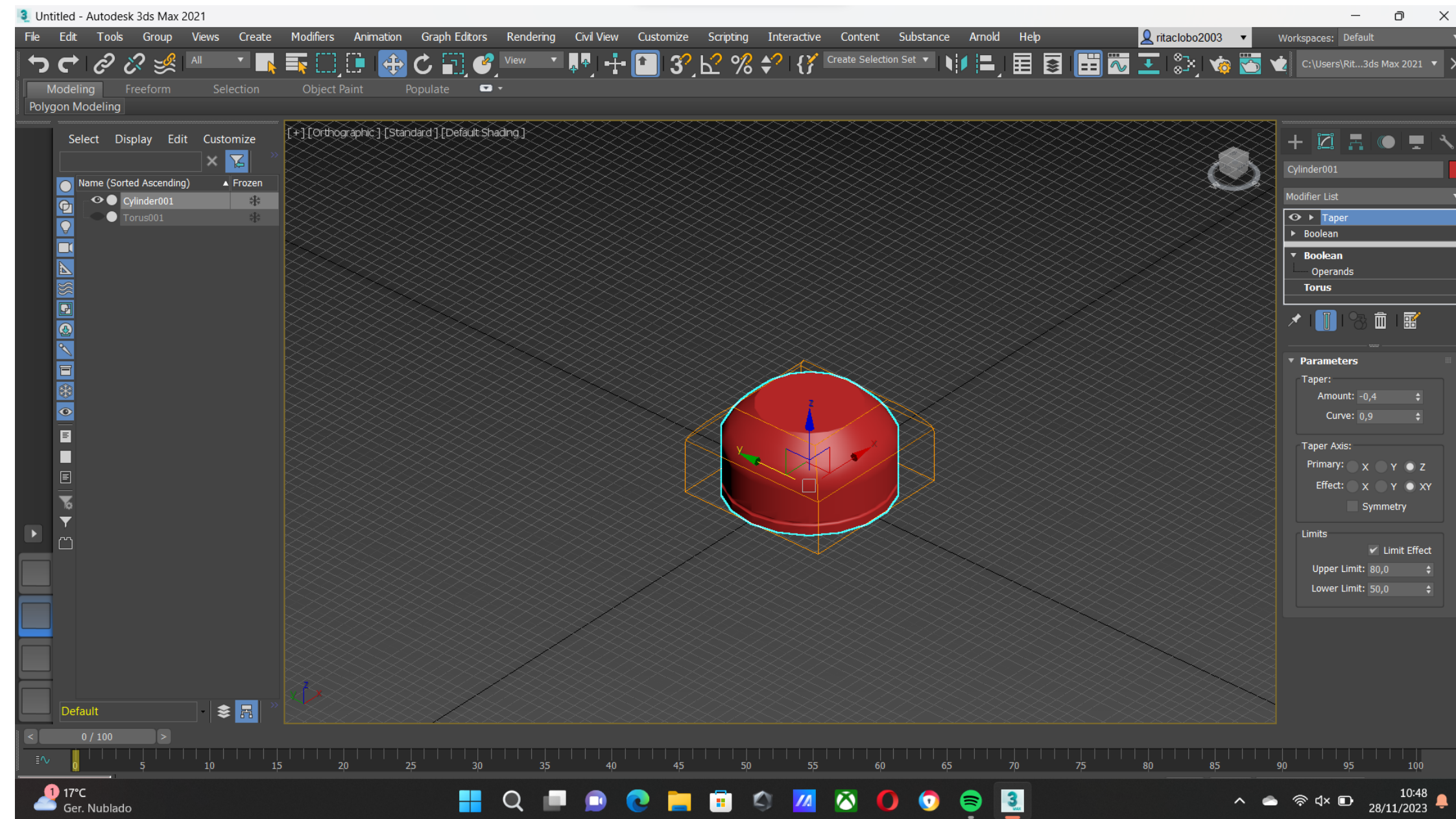


- Subtraímos o TORUS ao cilindro:
- Compound objects e Boolean
selecionar cilindro
- ADD OPERANDS e selecionar TORUS
- Selecionar SUBTRACT

ReDig

ACAD 3D

Aula 20



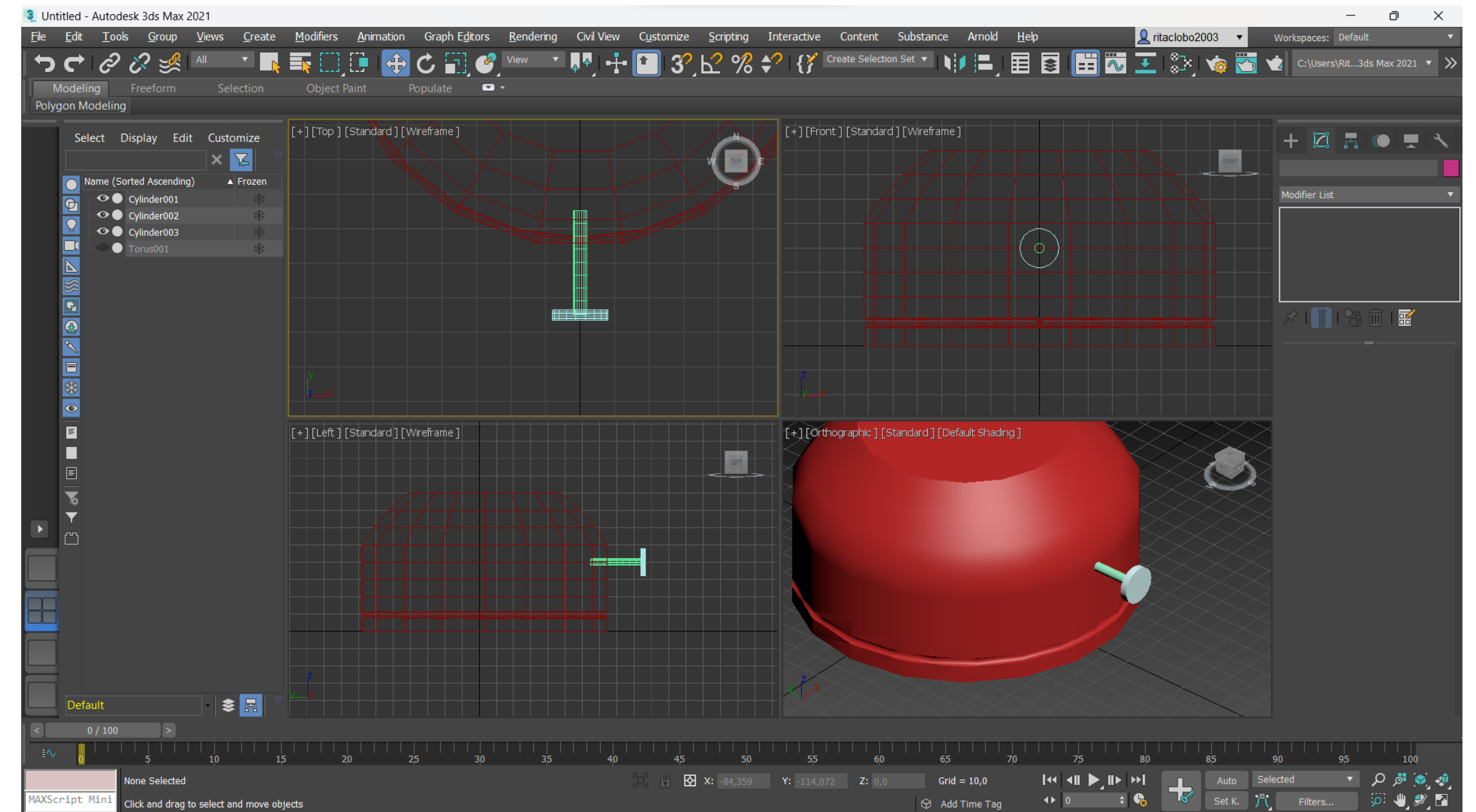
Deformação do cilindro:

-Selecionar o cilindro e depois selecionar LIMIT EFFECT

Upper Limit: 80
Lower Limit: 50

Amount: -0,4
Curve: 0,9

ReDig



Botão:

- 2 cilindros de tamanhos diferentes

Cilindro 1:	Cilindro2:
Raio: 2	Raio: 8
Height: 30	Height: 3

-Mover o cilindro 2 para a frente do 1 e mover os dois para o exterior

ACAD 3D