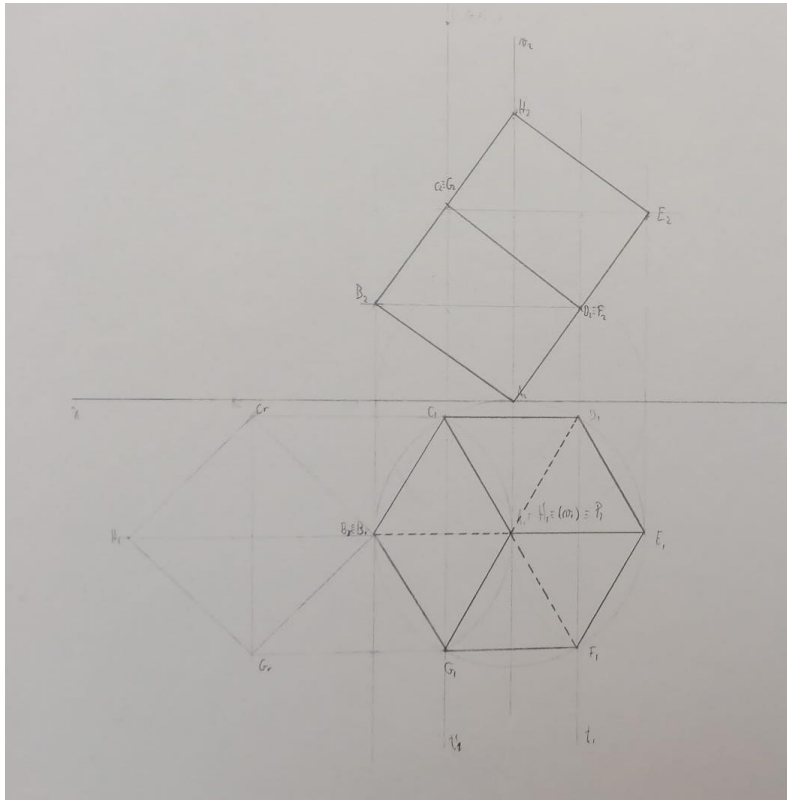
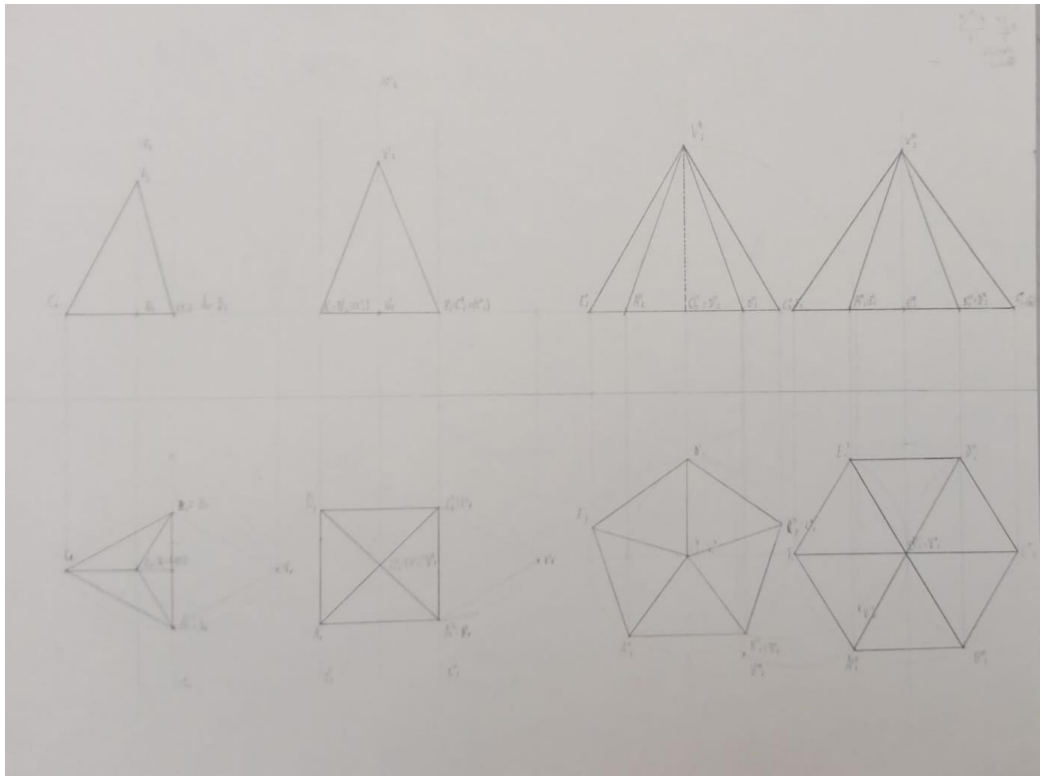
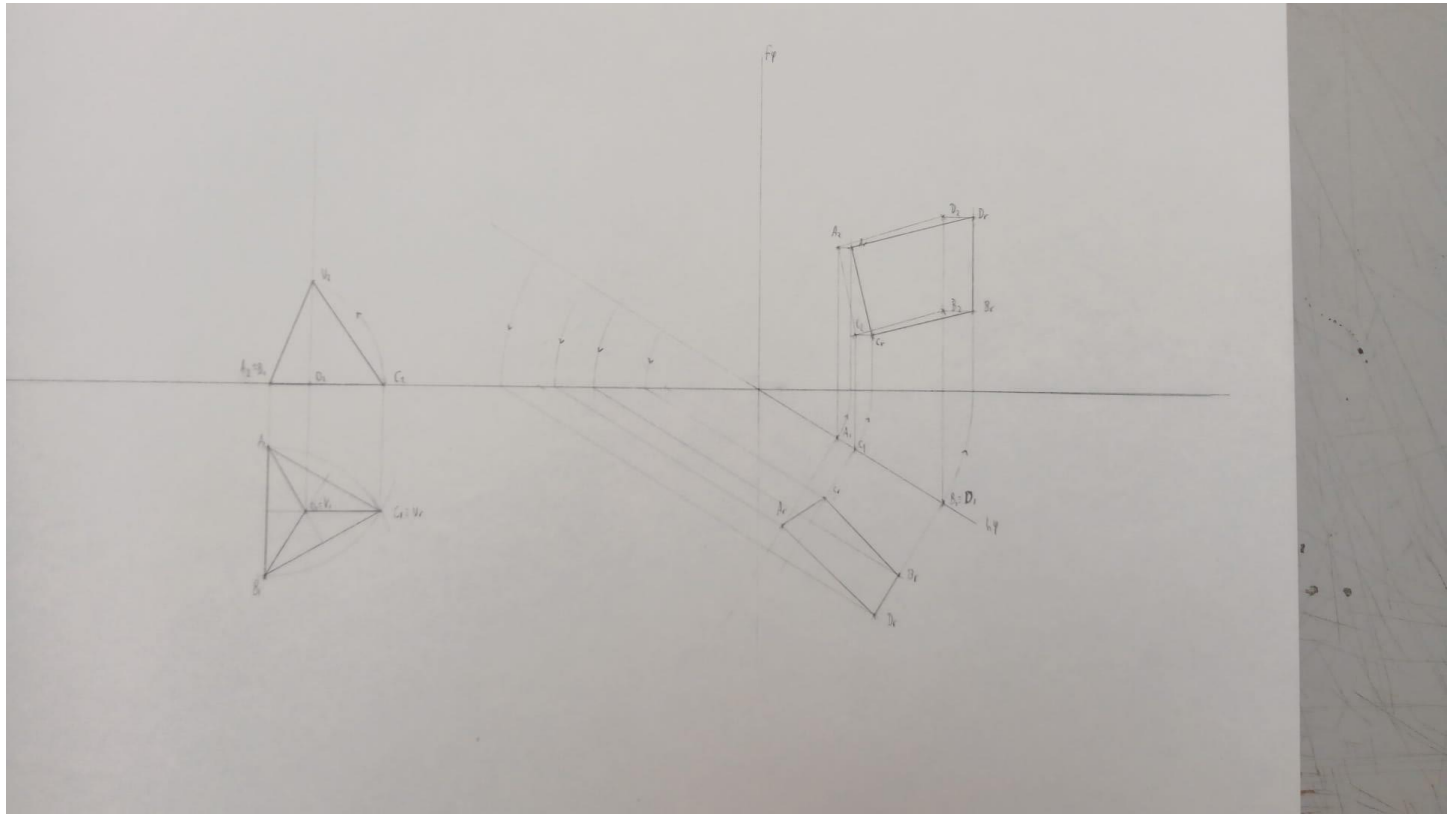
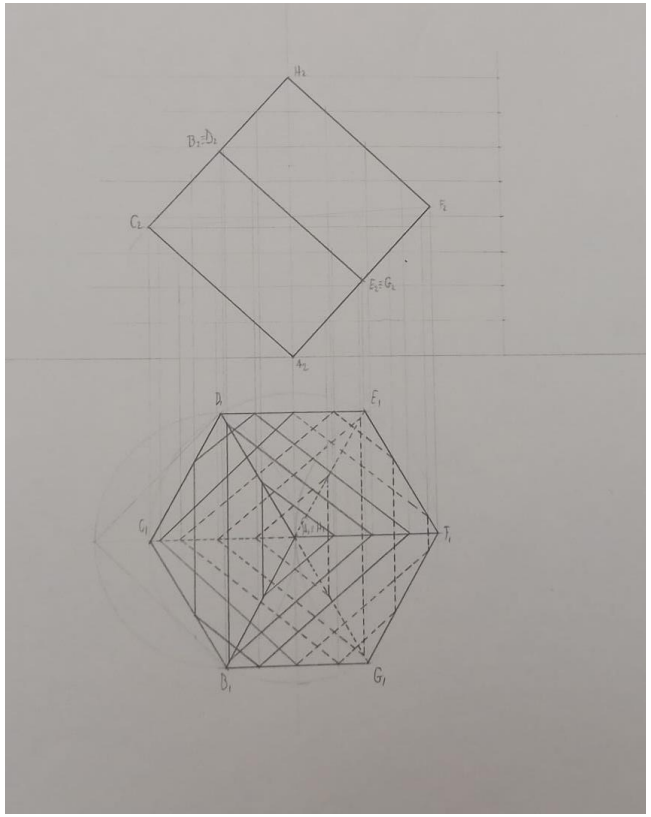
O MEU CADERNO DIÁRIO

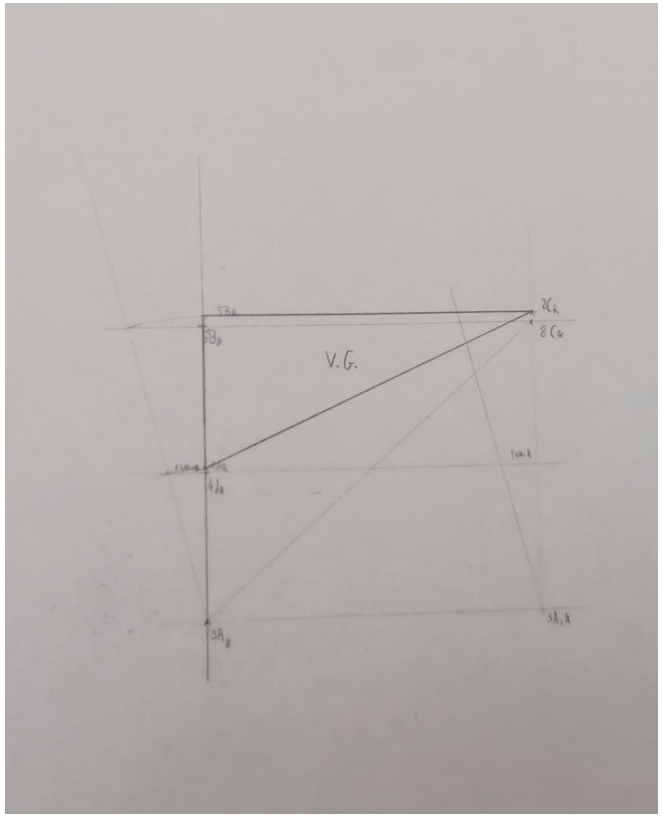
HENRIQUE GOMES PACHECO - 20241121

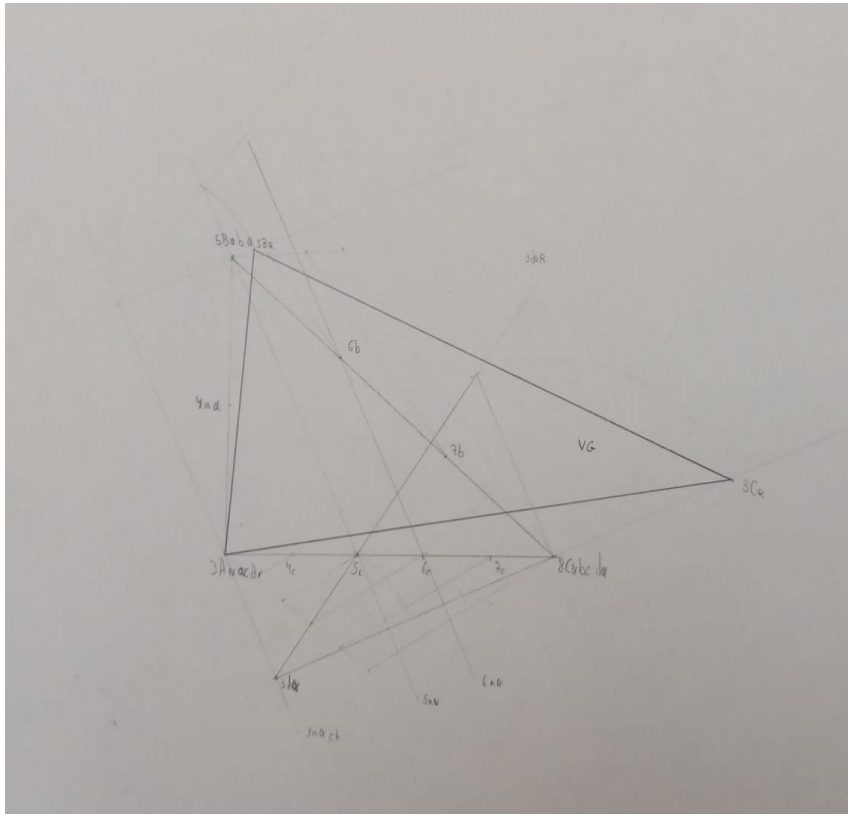

H_2
$C_2 \equiv G_2$
E_2
B_2
$D_2 \equiv F_2$
A_2
C_1
D_1
$H_1 \equiv (\omega_1) \equiv P_1$
$B_1 \equiv B_2$
E_1
F_1
G_1
V_1
t_1

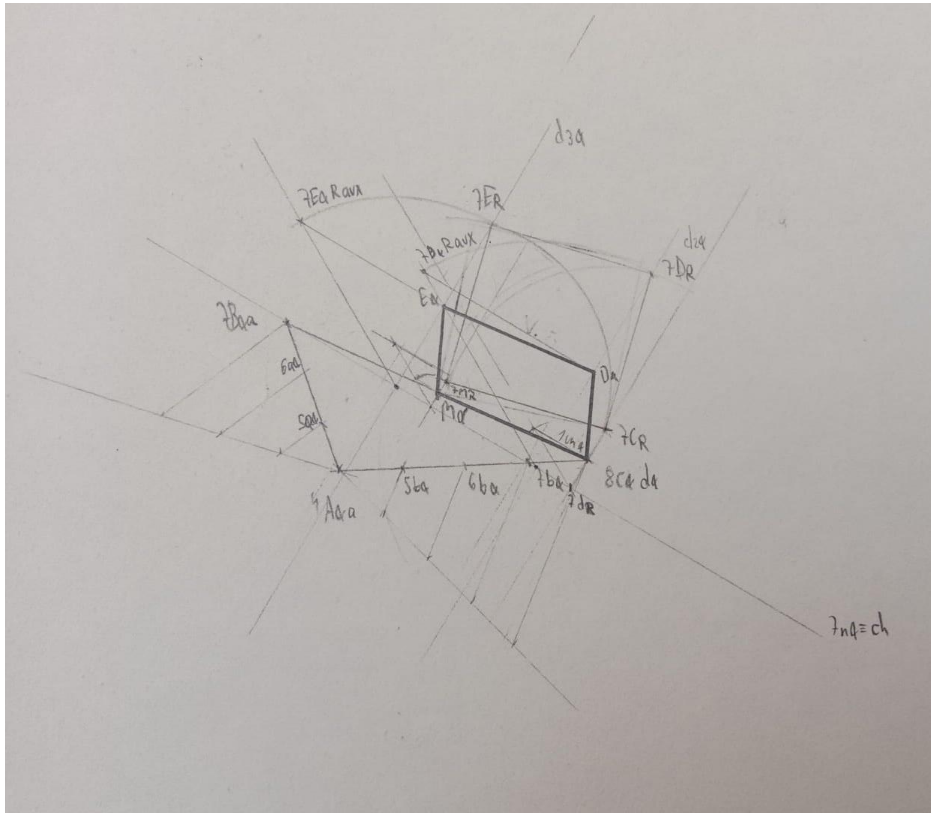


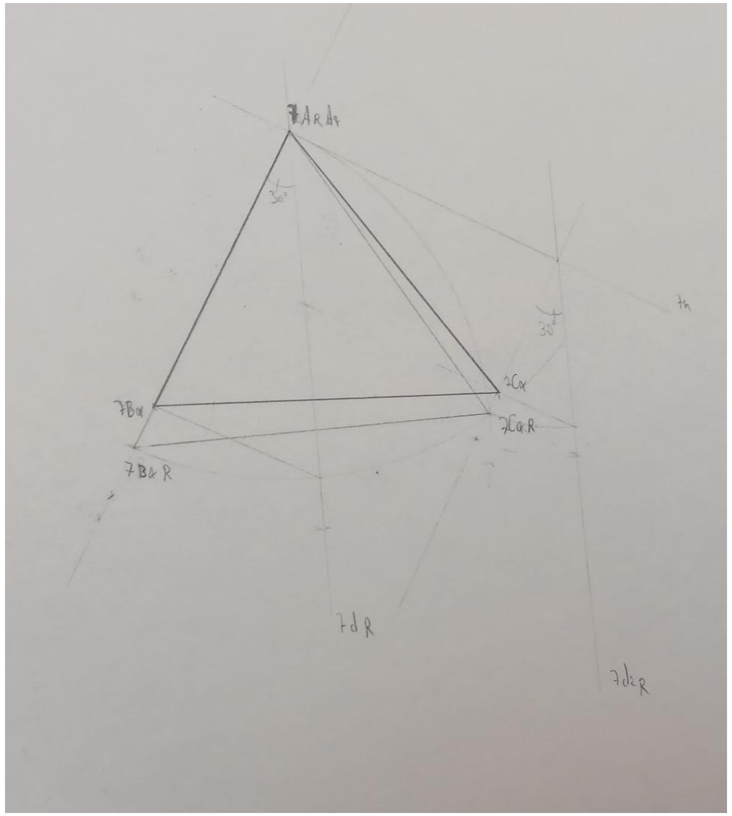


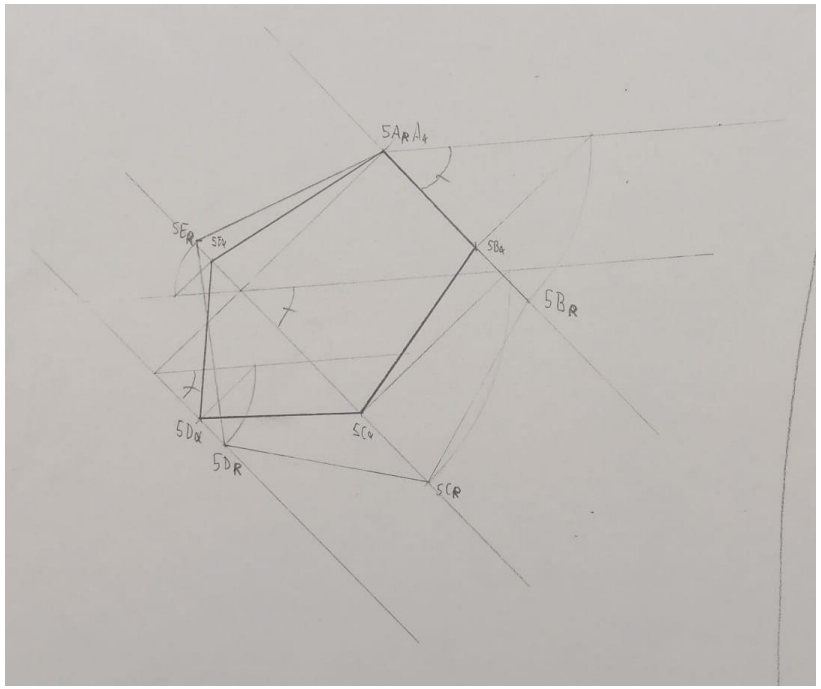

V. G.

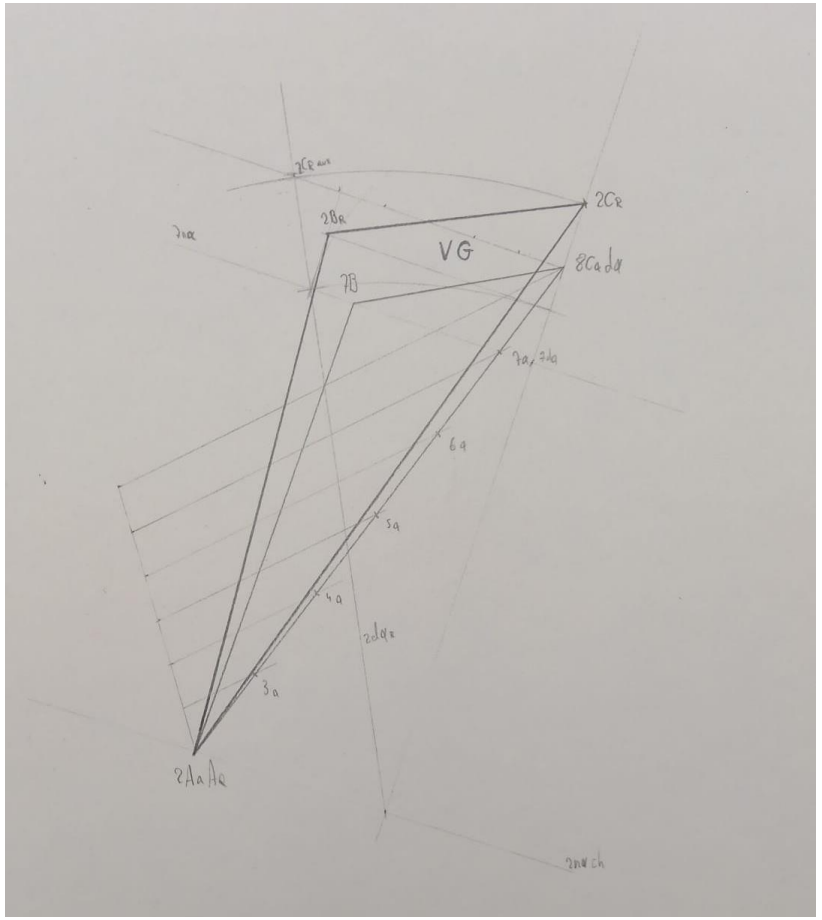

V. G.

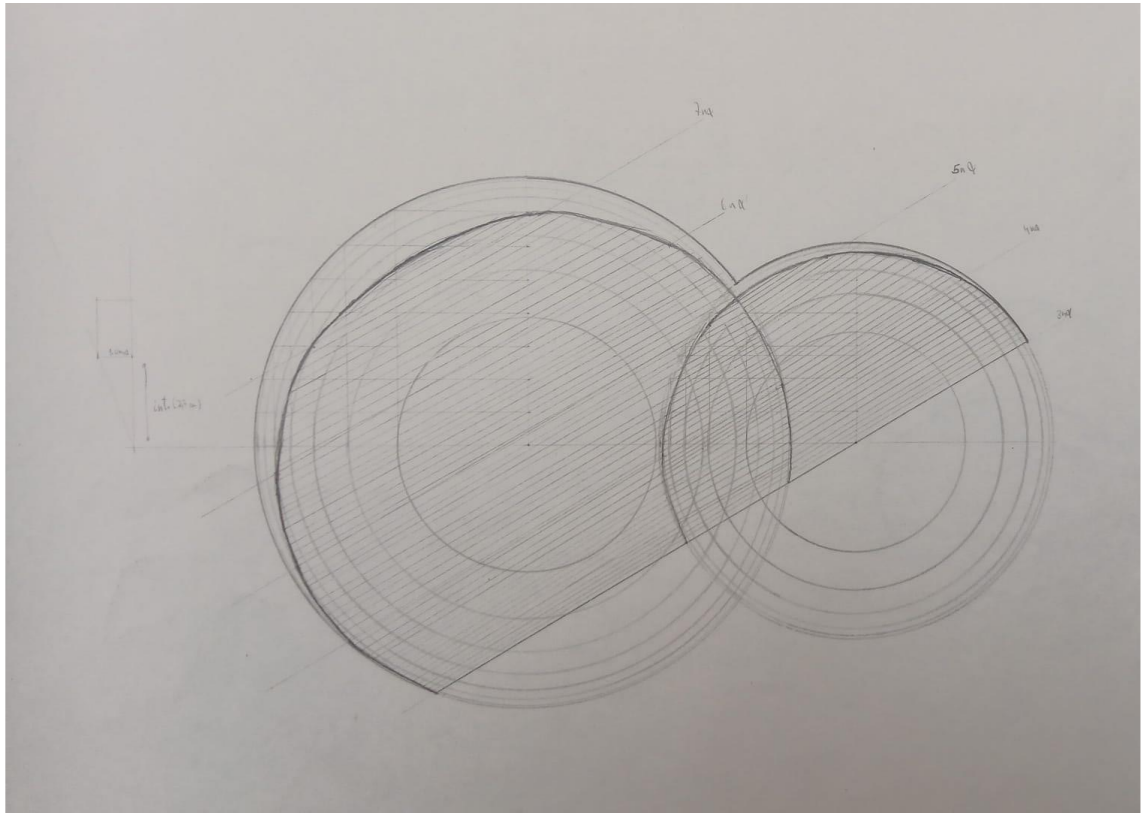

VG

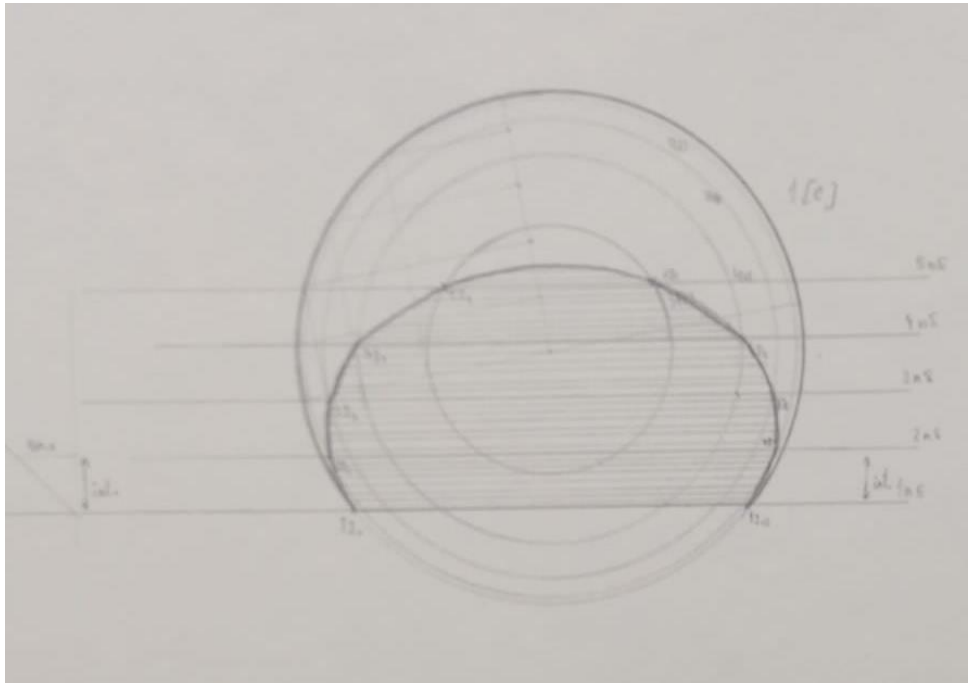


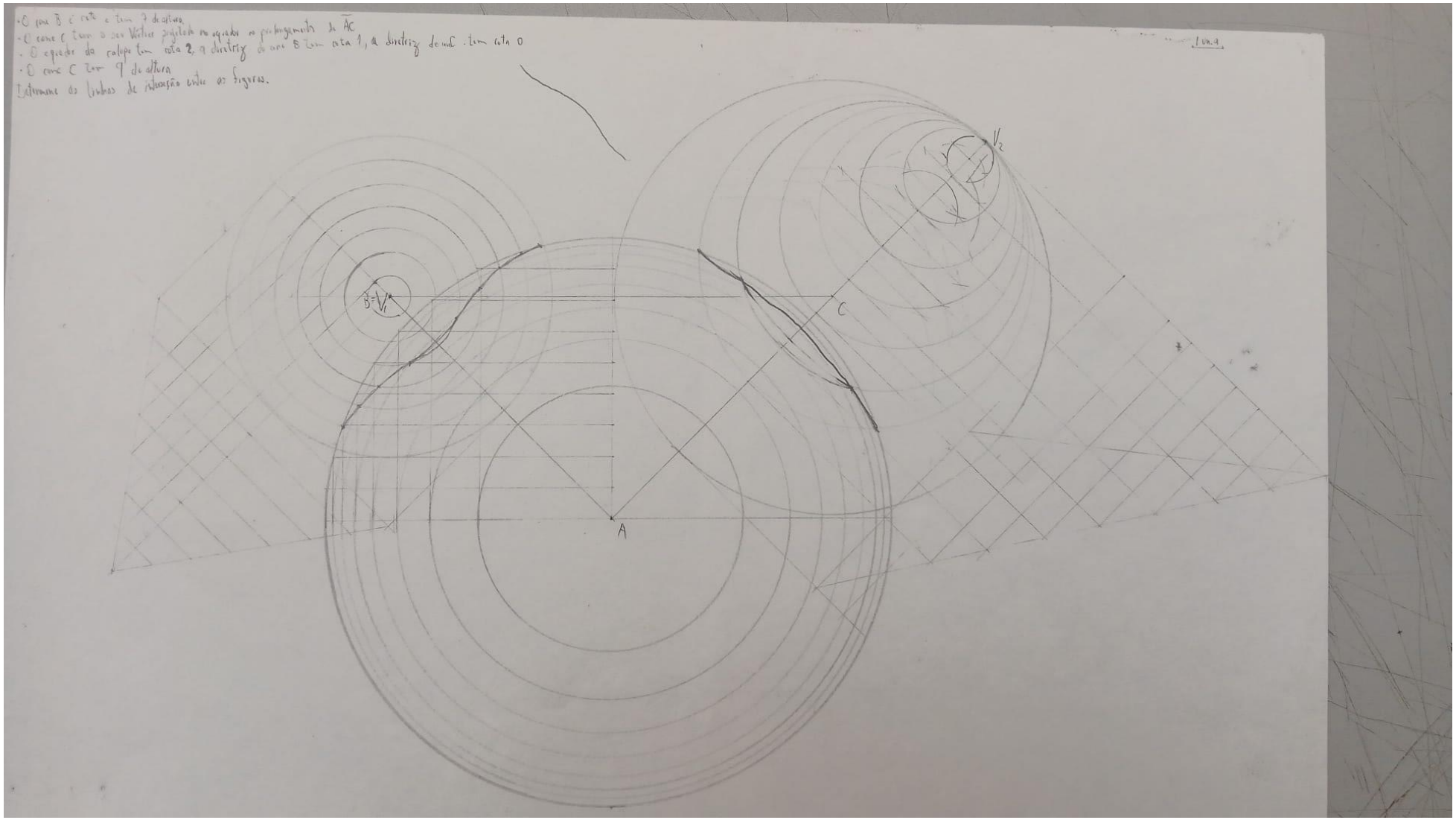


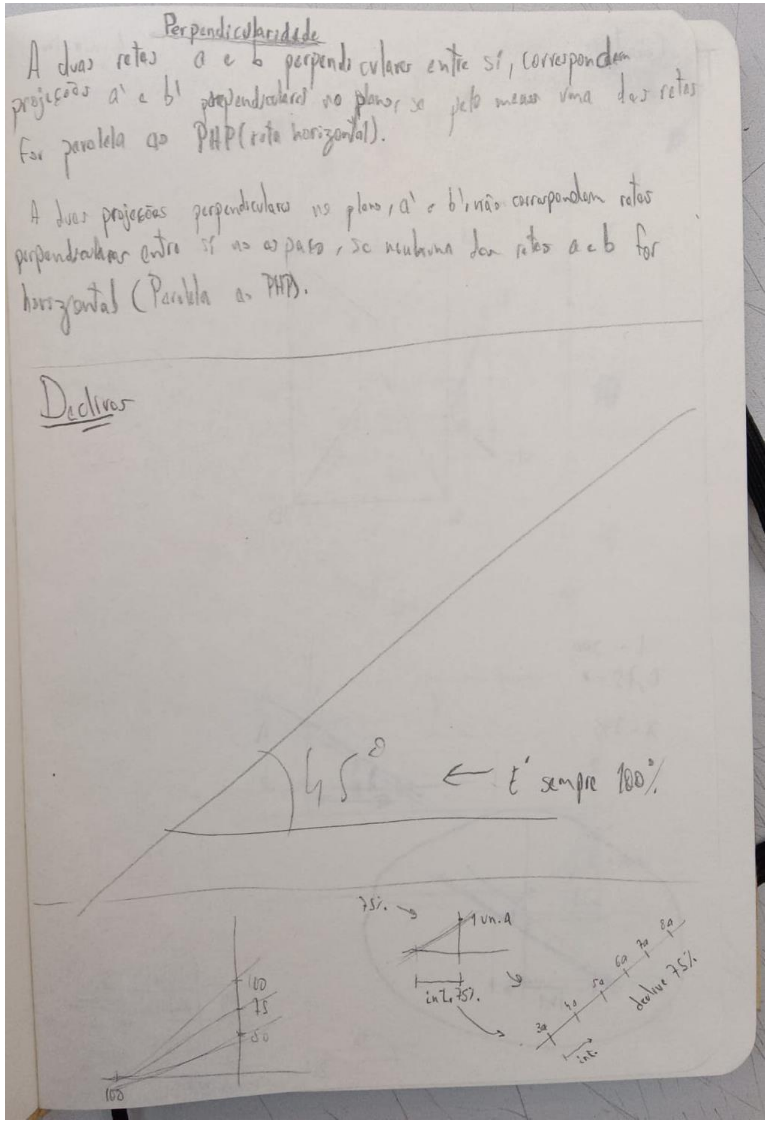
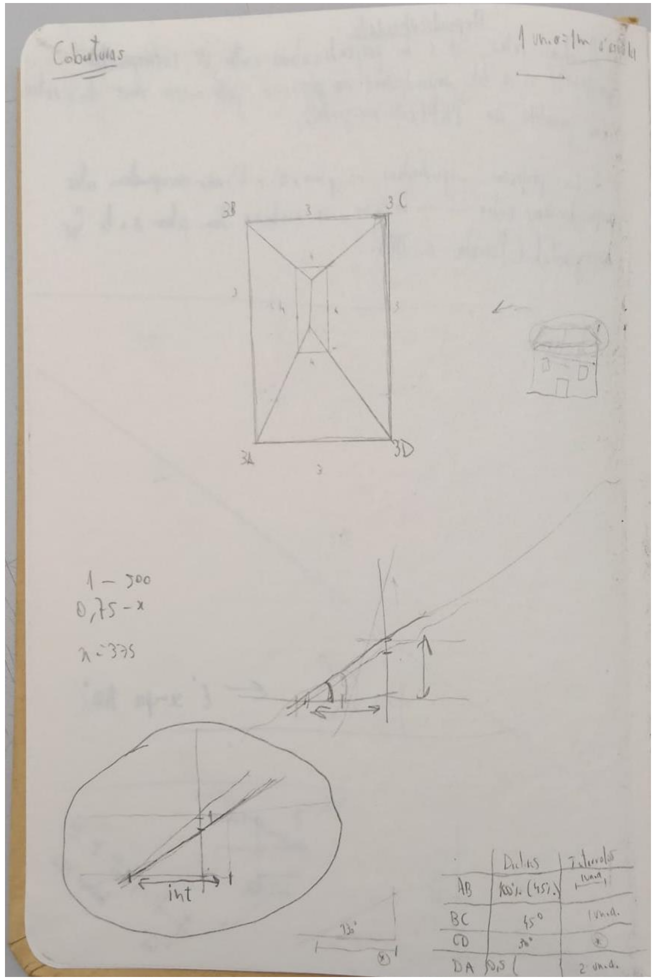
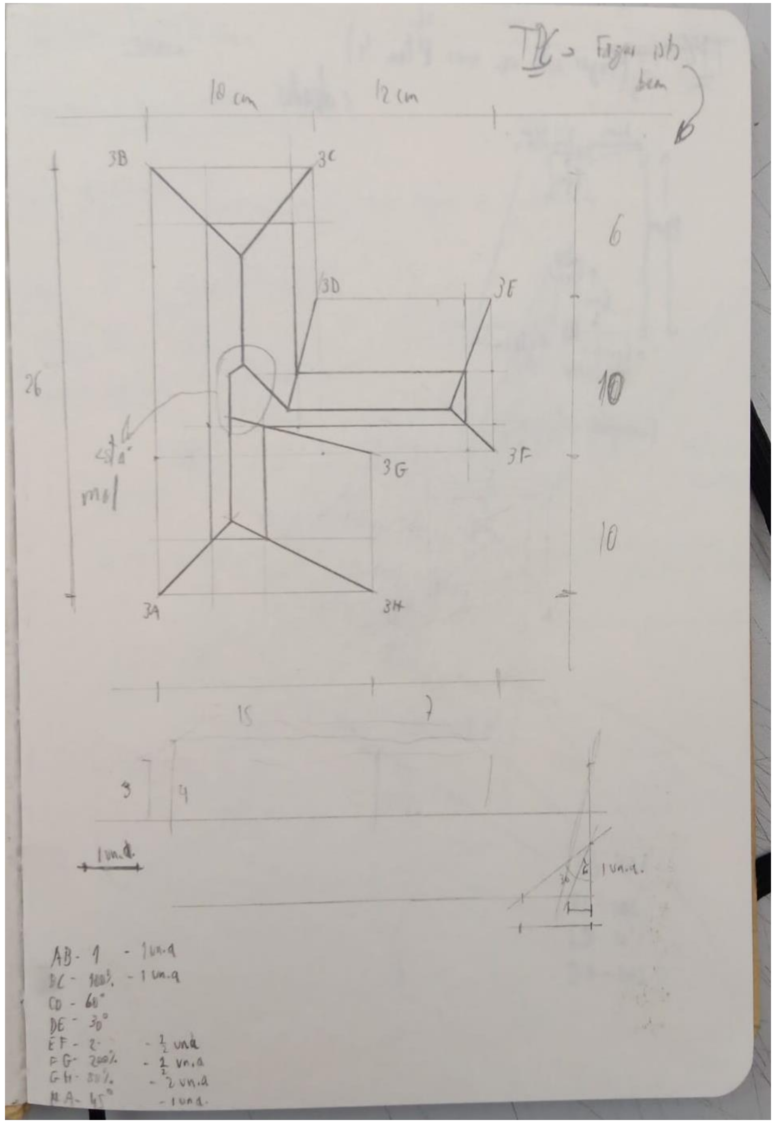

5AR Aa
5ER
5Ea
5Ba
5BR
5Da
5DR
5Ca
5CR

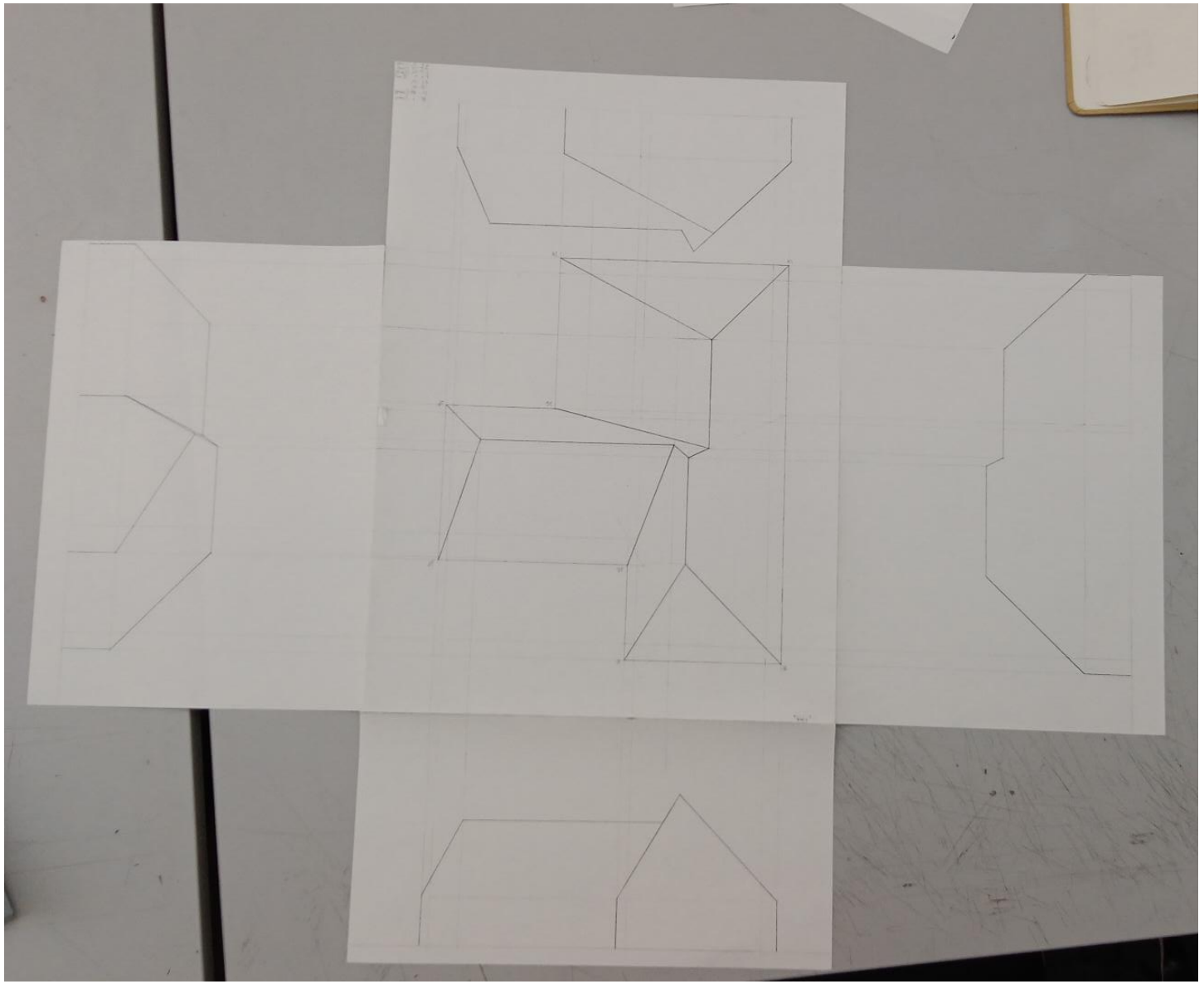

2CR
2BR
VG
8Ca da
7B
6a
5a
4a
3a
2AaAa

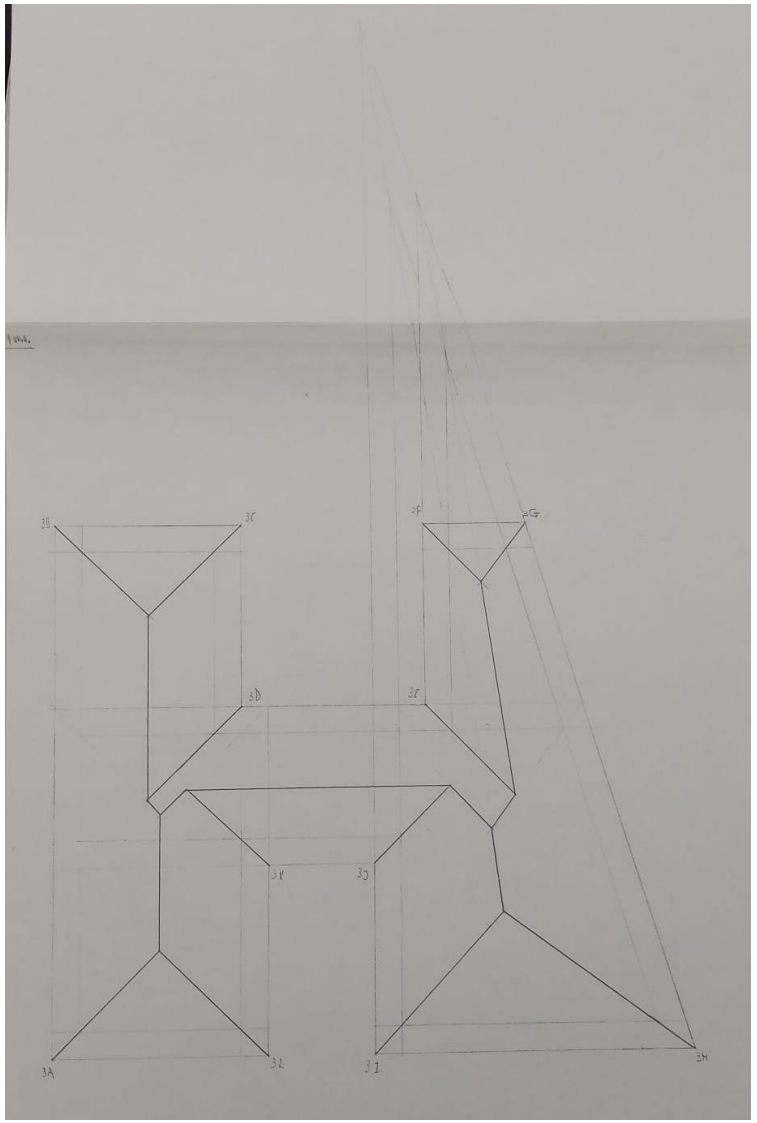


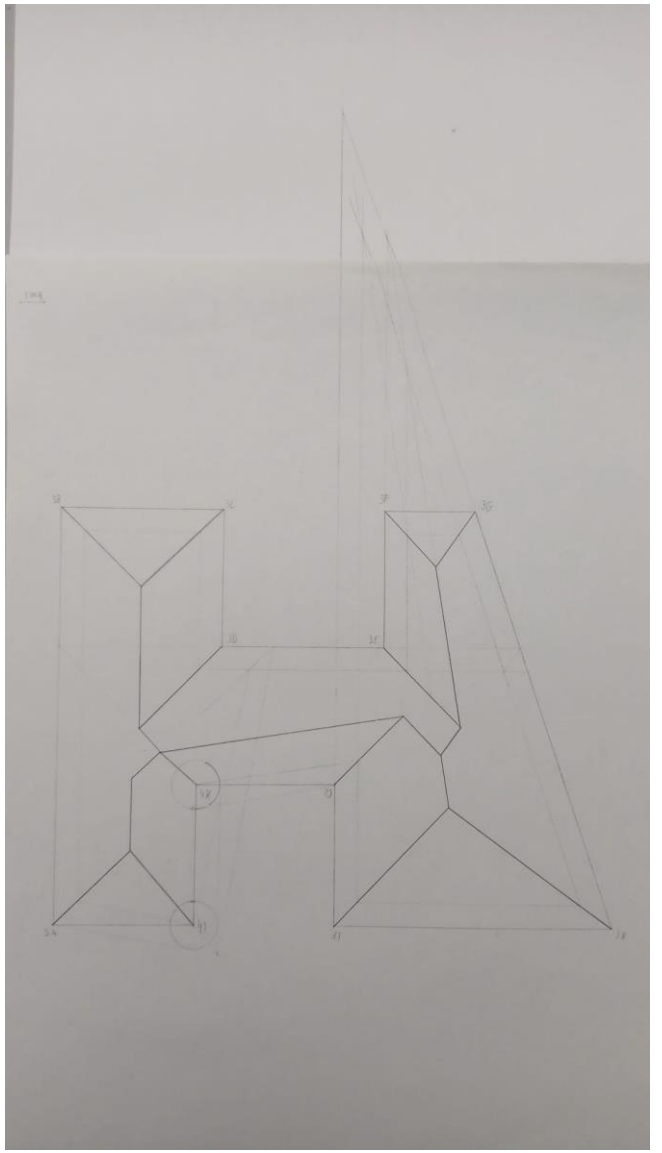


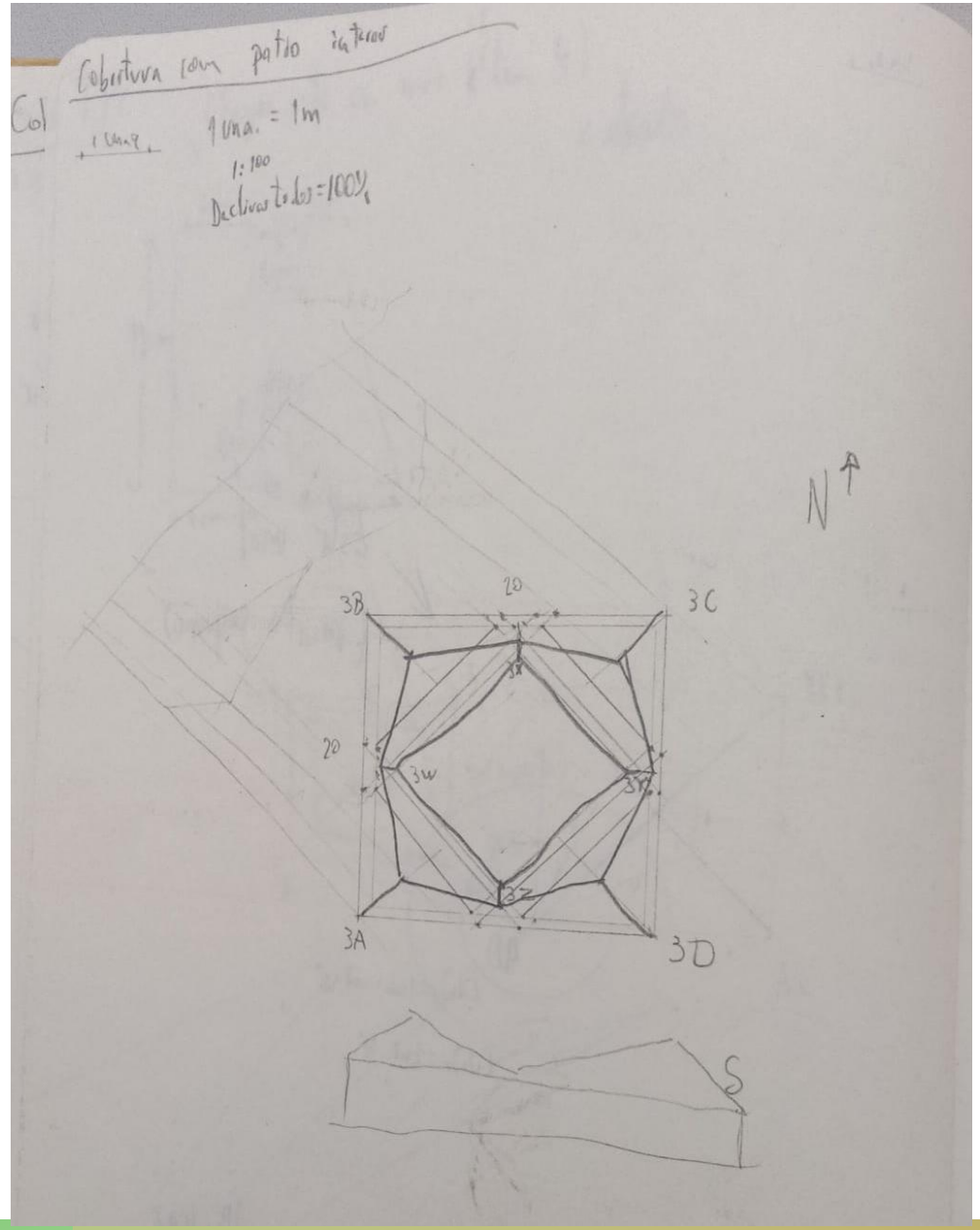

C
A

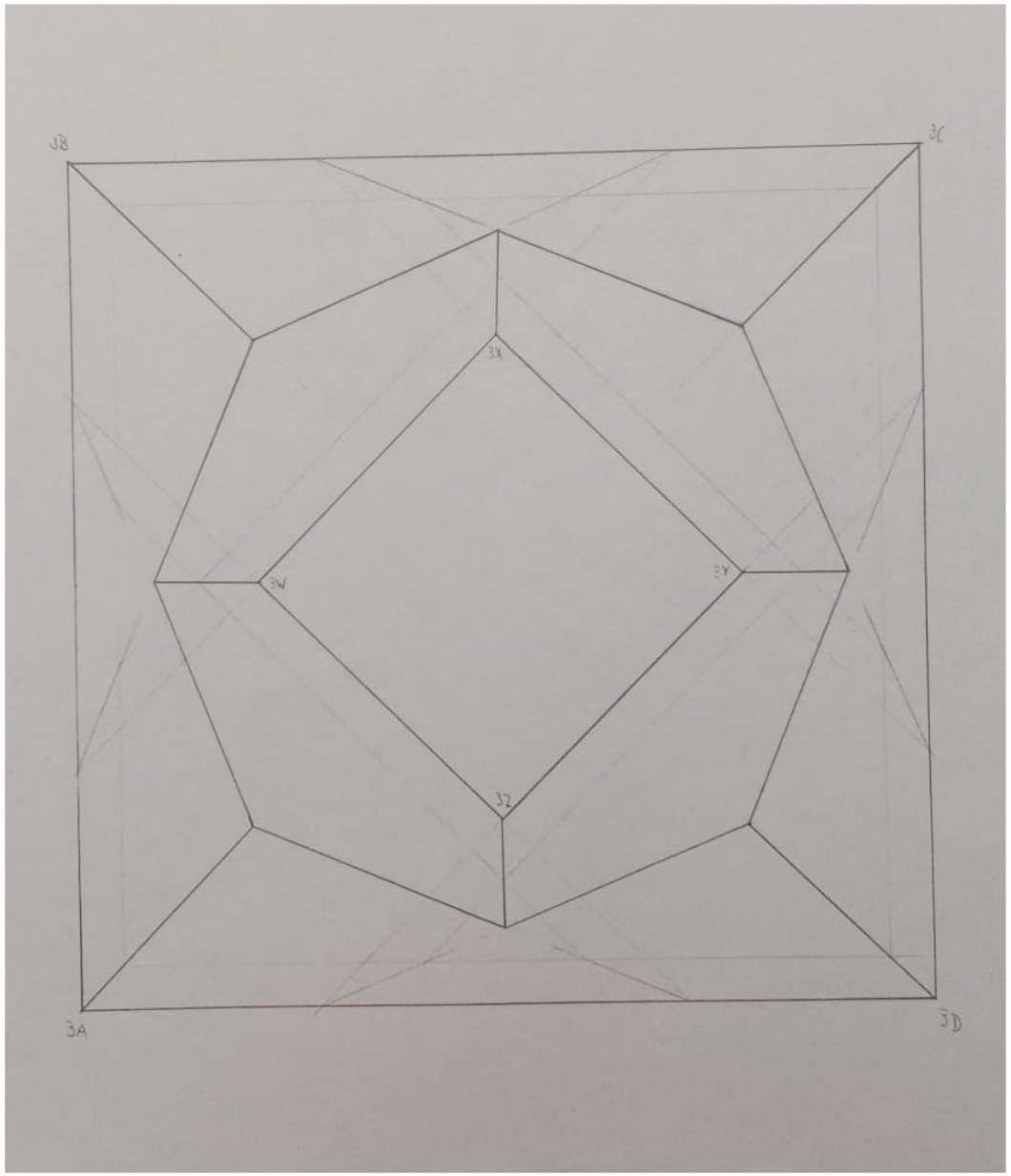

Perpendicularidade
A duas retas a e b perpendiculares entre si, correspondem projeções a' e b' perpendiculares no plano, se pelo menos uma das retas for paralela ao PHP (reta horizontal).
A duas projeções perpendiculares no plano, a' e b', não correspondem retas perpendiculares entre si no espaço, se nenhuma das retas a e b for horizontal (Paralela ao PHP).
Declives
45°
← É sempre 100%
75%
1 un.a
int. 75%
declive 75%
int.
100
75
50

Coberturas
1 un.a = 1m
3B
3C
3A
3D
1 — 100
0,75 — x
x = 375
int
Declives
Intervalos
AB
100% (45%)
1 un.a
BC
45°
1 un.a.
CD
30°
DA
0,5
2 un.a.

10 cm
12 cm
3B
3C
3D
3E
3F
3G
3A
3H
26
6
10
10
15
7
3
4
1 un.a.
AB - 1 - 1 un.a
BC - 100% - 1 un.a
CD - 60°
DE - 30°
EF - 2 - ½ un.a
FG - 200% - ½ un.a
GH - 50% - 2 un.a
HA - 45° - 1 un.a

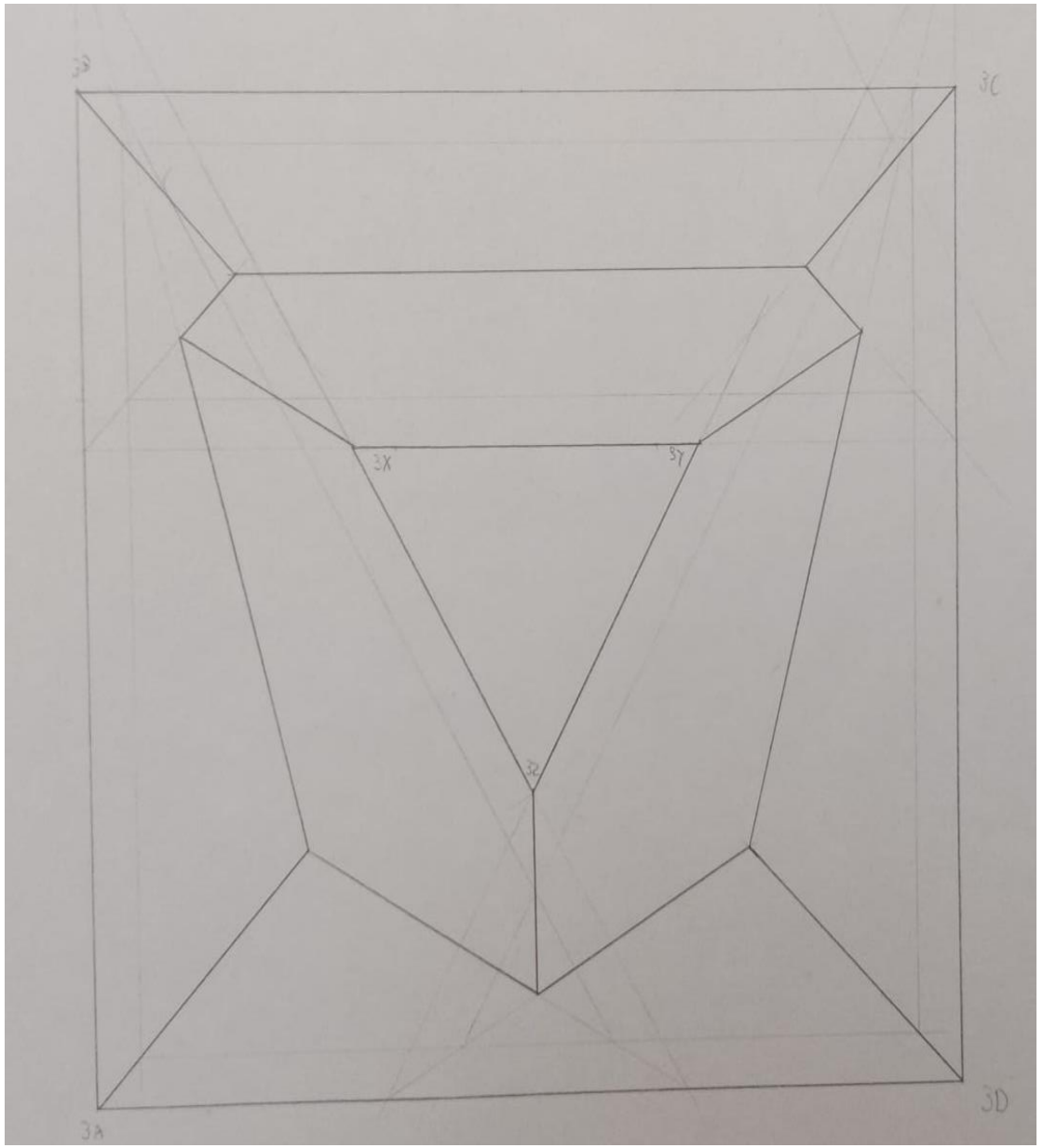


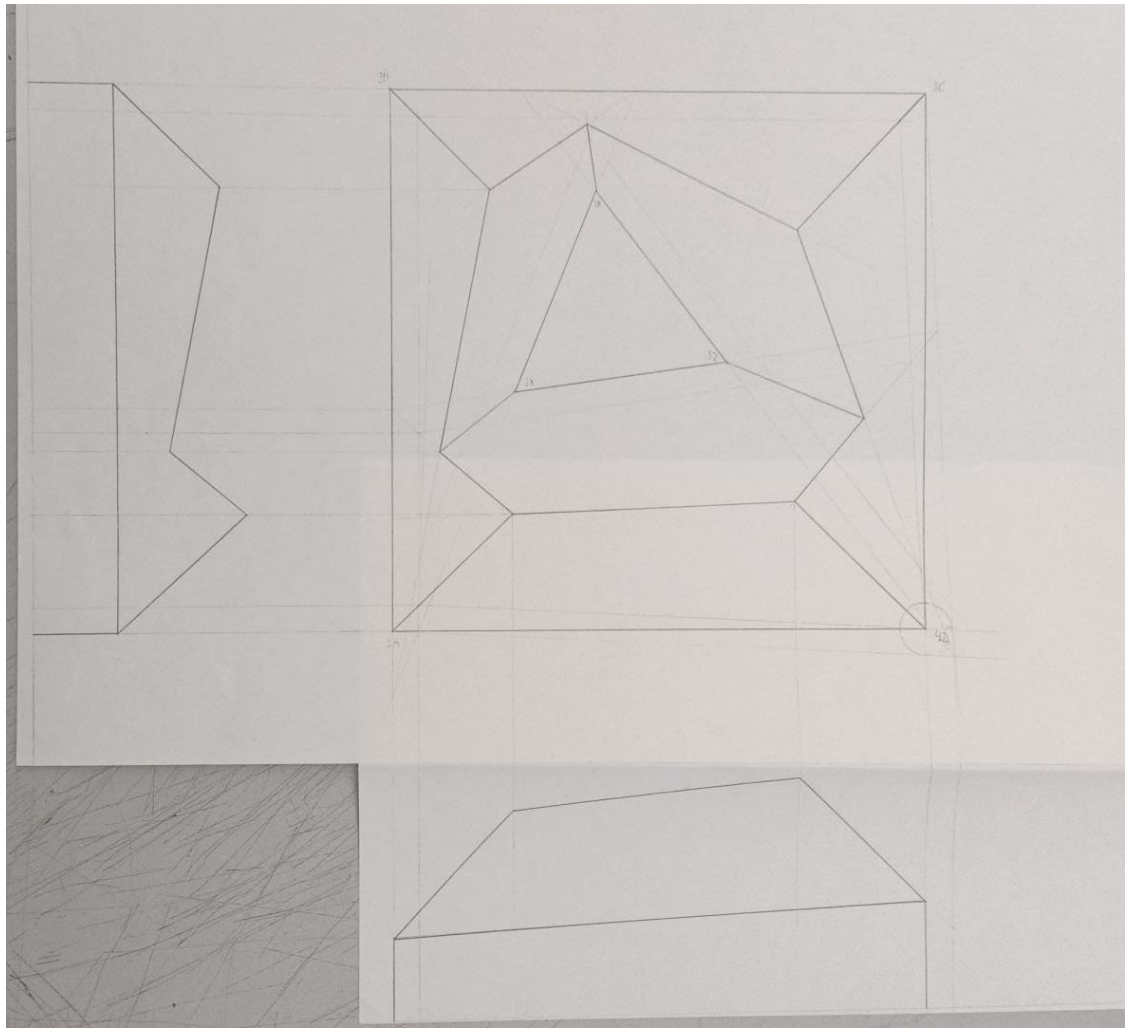

3B
3C
3F
3G
3D
3E
3A
3L
3I
3H

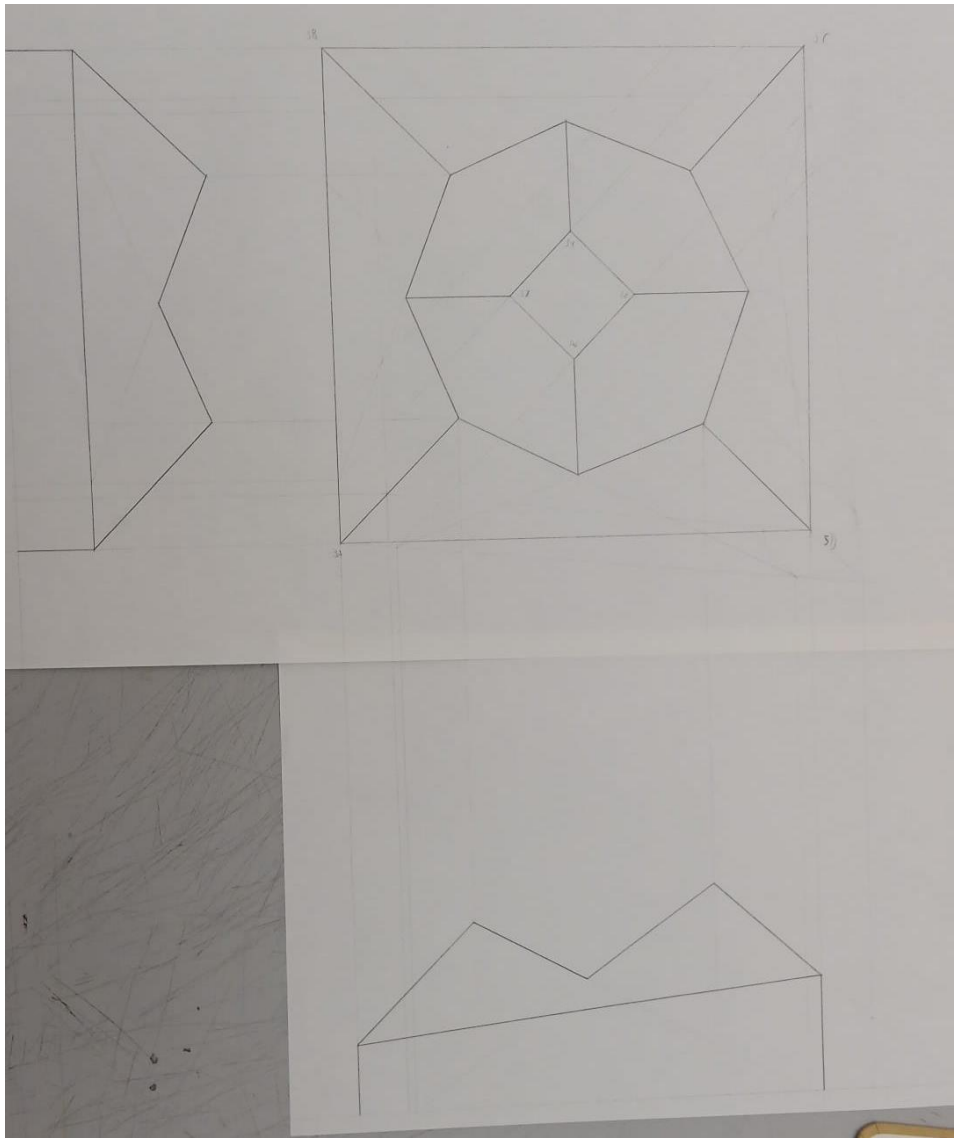


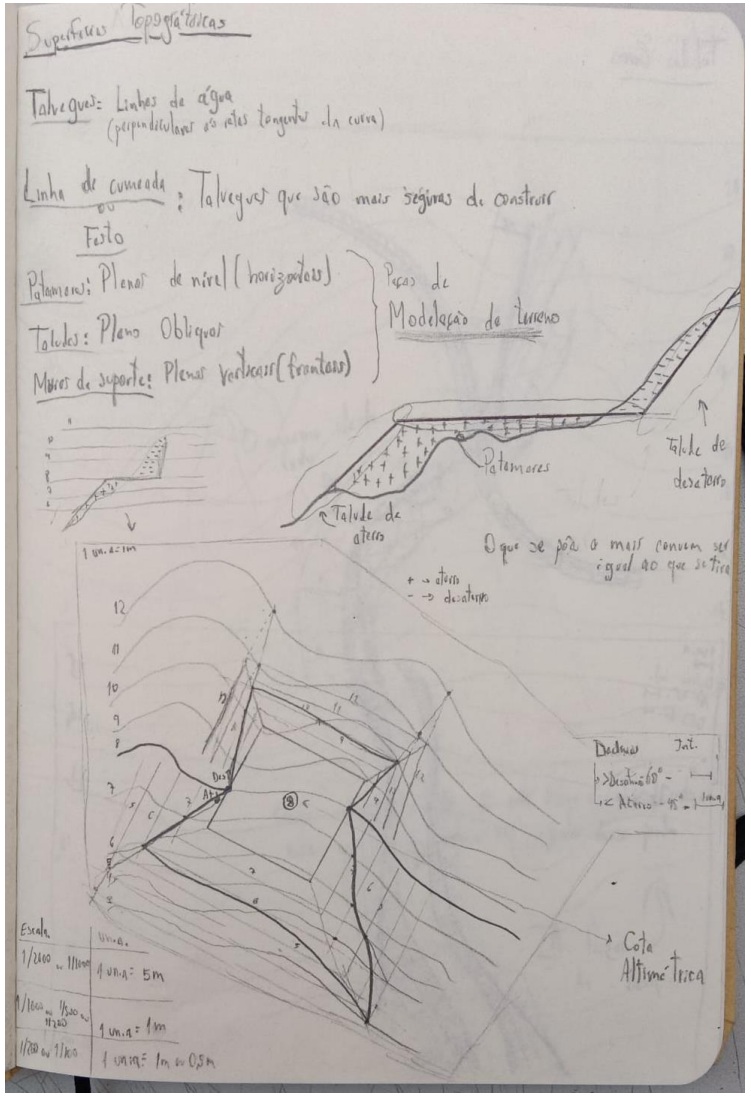

Cobertura com patio interno
1 cm = 1m
1:100
Declividade todos = 100%
N
3B
2D
3C
2D
3A
3D
S

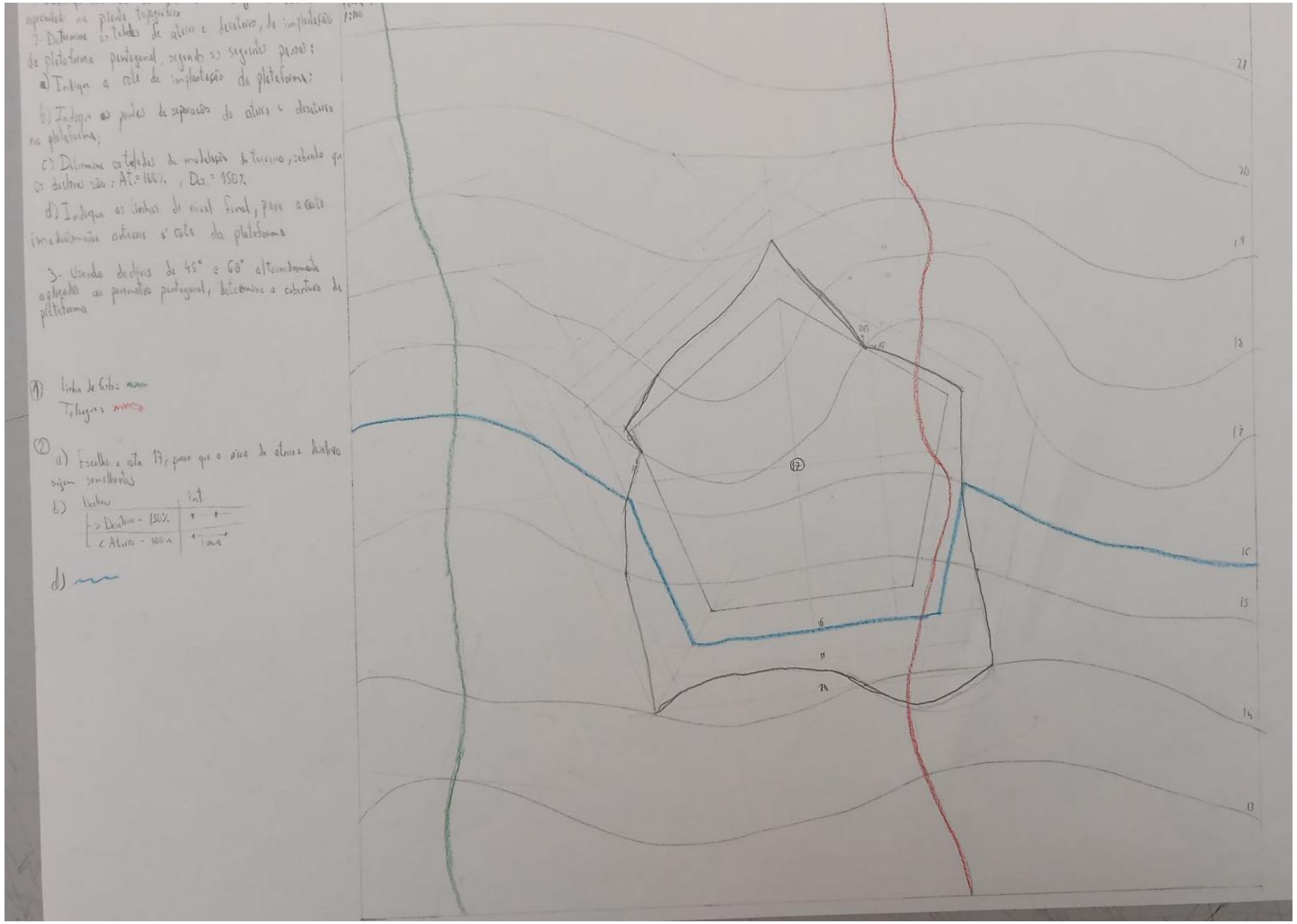

3B
3C
3X
3W
3Y
3Z
3A
3D


3B
3C
3X
3Y
3Z
3A
3D

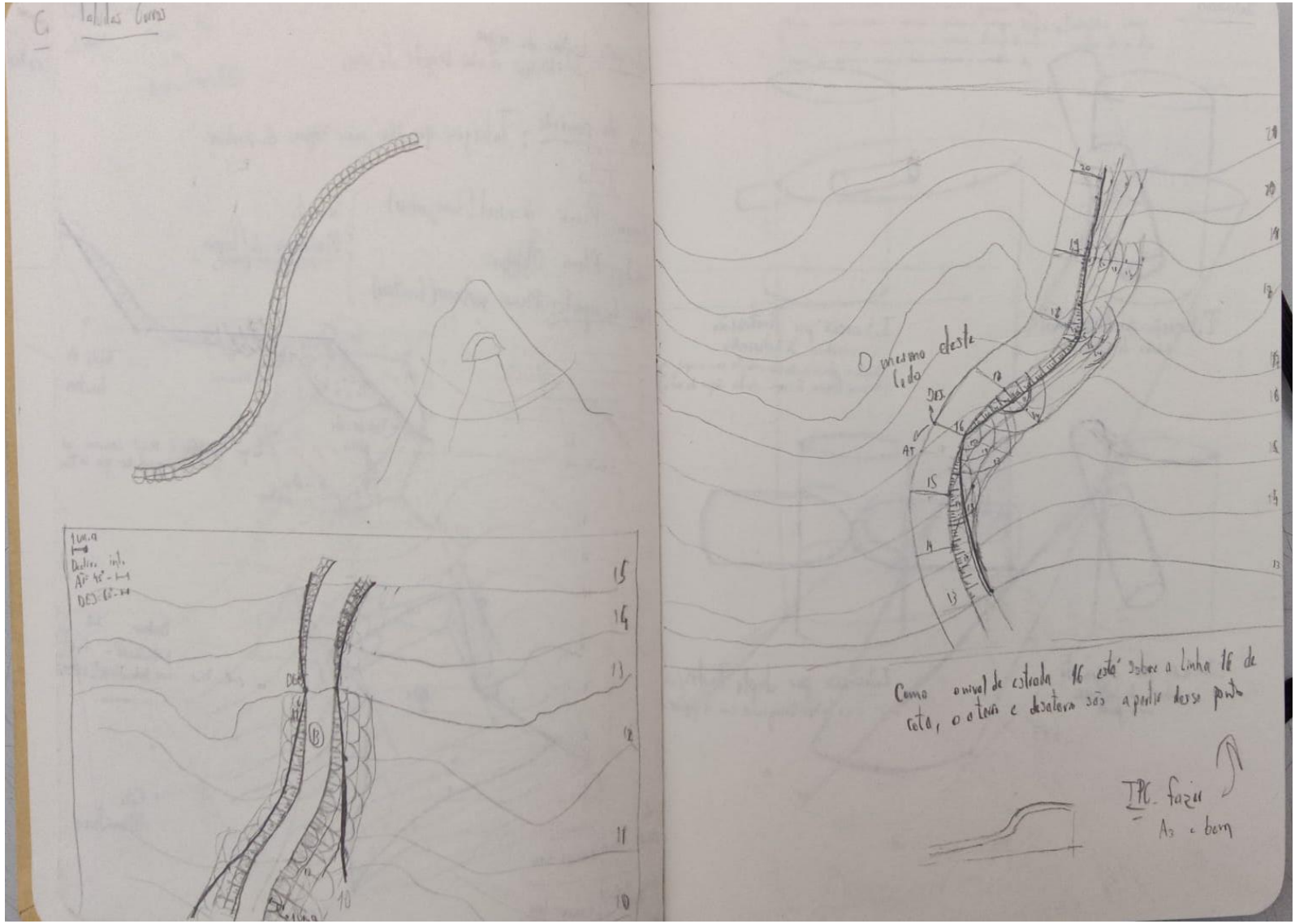


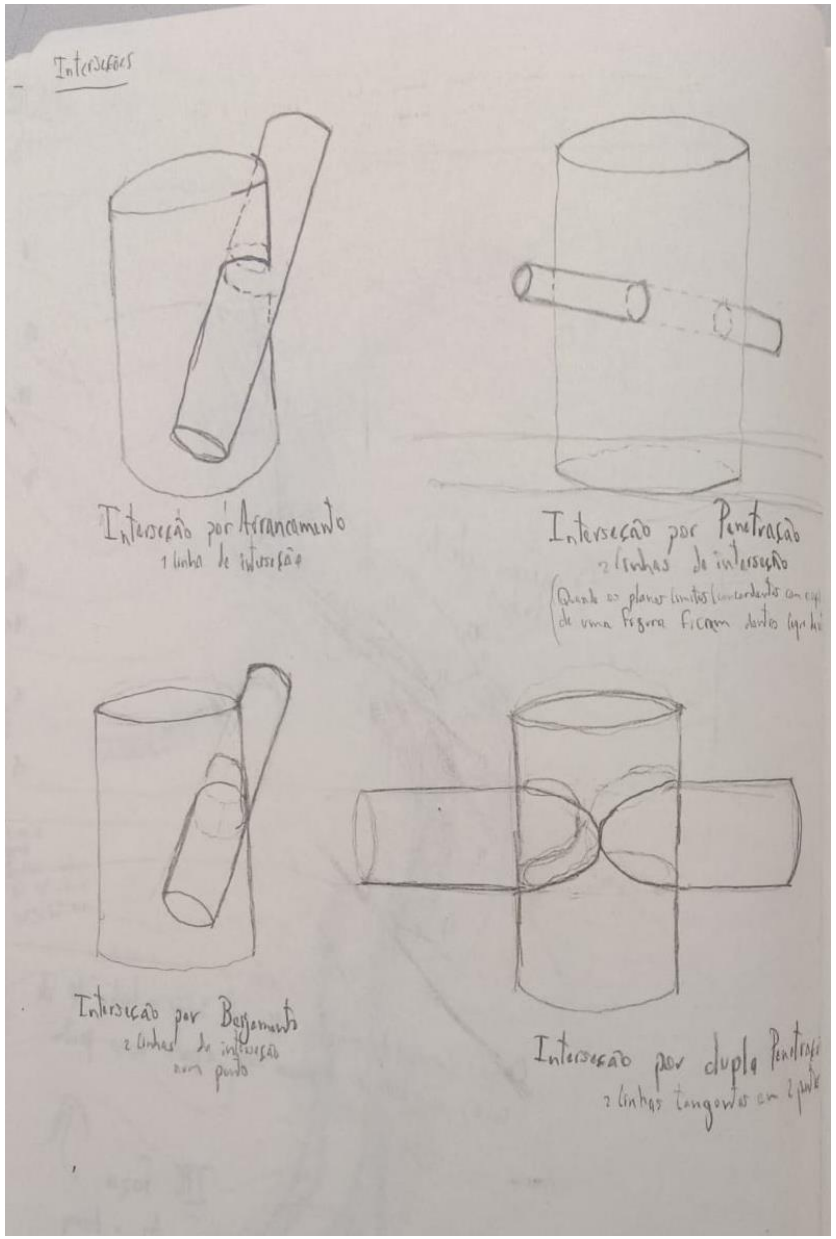


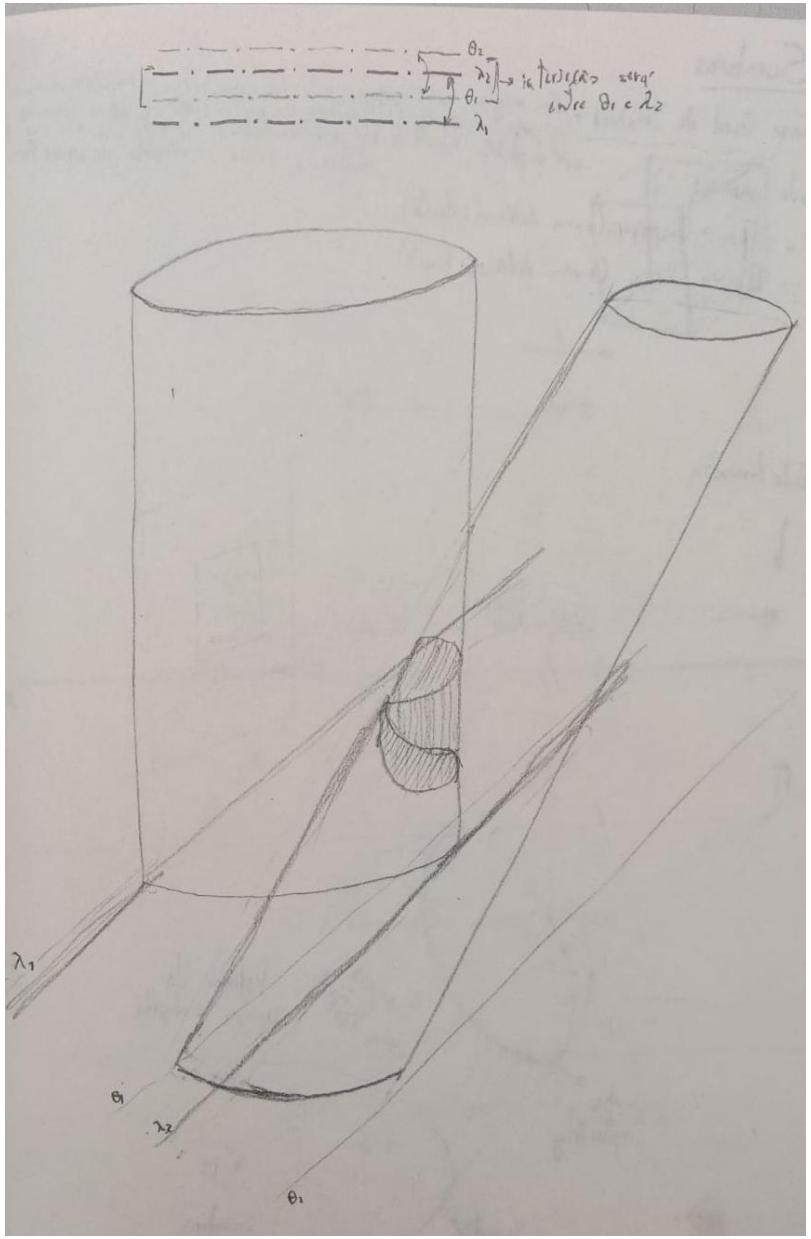

Superfícies Topográficas
Talvegues: Linhas de água (perpendiculares às retas tangentes da curva)
Linha de cumeada: Talvegues que são mais seguras de construir
Festo
Patamares: Planos de nível (horizontais)
Taludes: Planos Obliquos
Muros de suporte: Planos verticais (frontais)
Peças de Modelação de terreno
Talude de aterro
Patamares
Talude de desaterro
O que se põe a mais convem ser igual ao que se tira
+ → aterro
- → desaterro
1 un. = 1m
Escala
1/200 a 1/1000
1 un. = 5m
1/1000 a 1/500
1 un. = 1m
1/200 a 1/100
1 un. = 1m a 0,5m
Cota Altimétrica

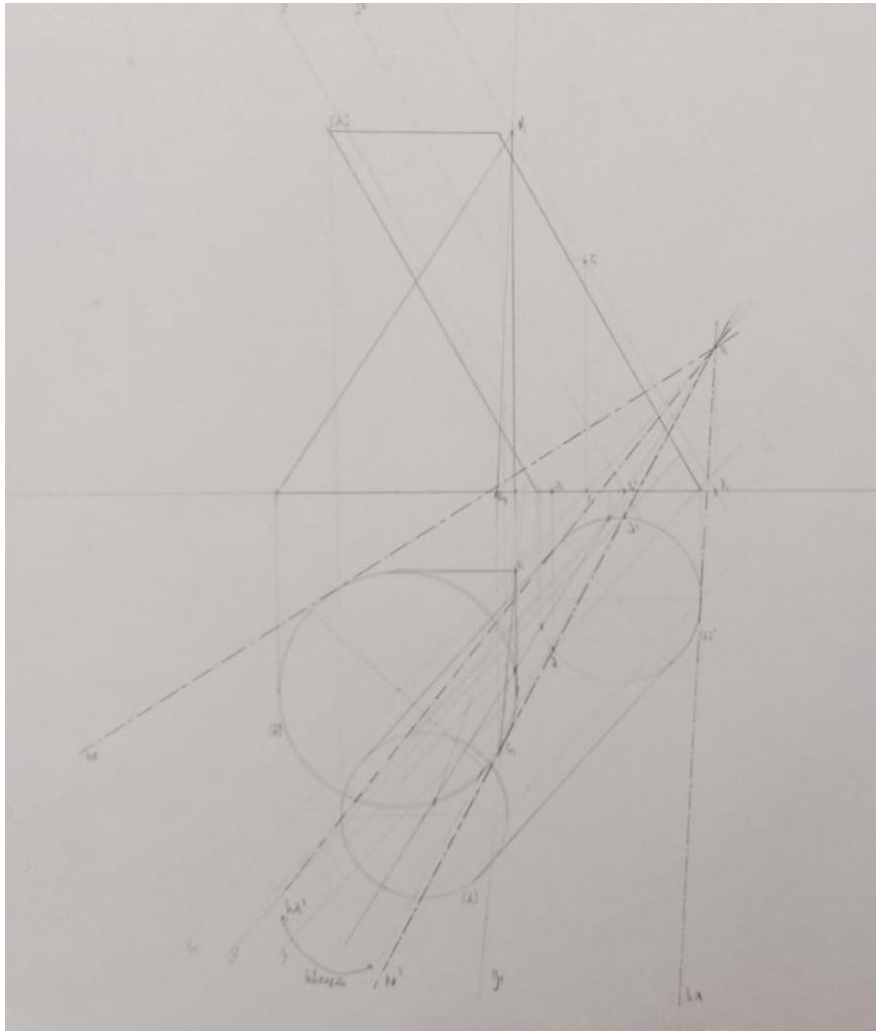


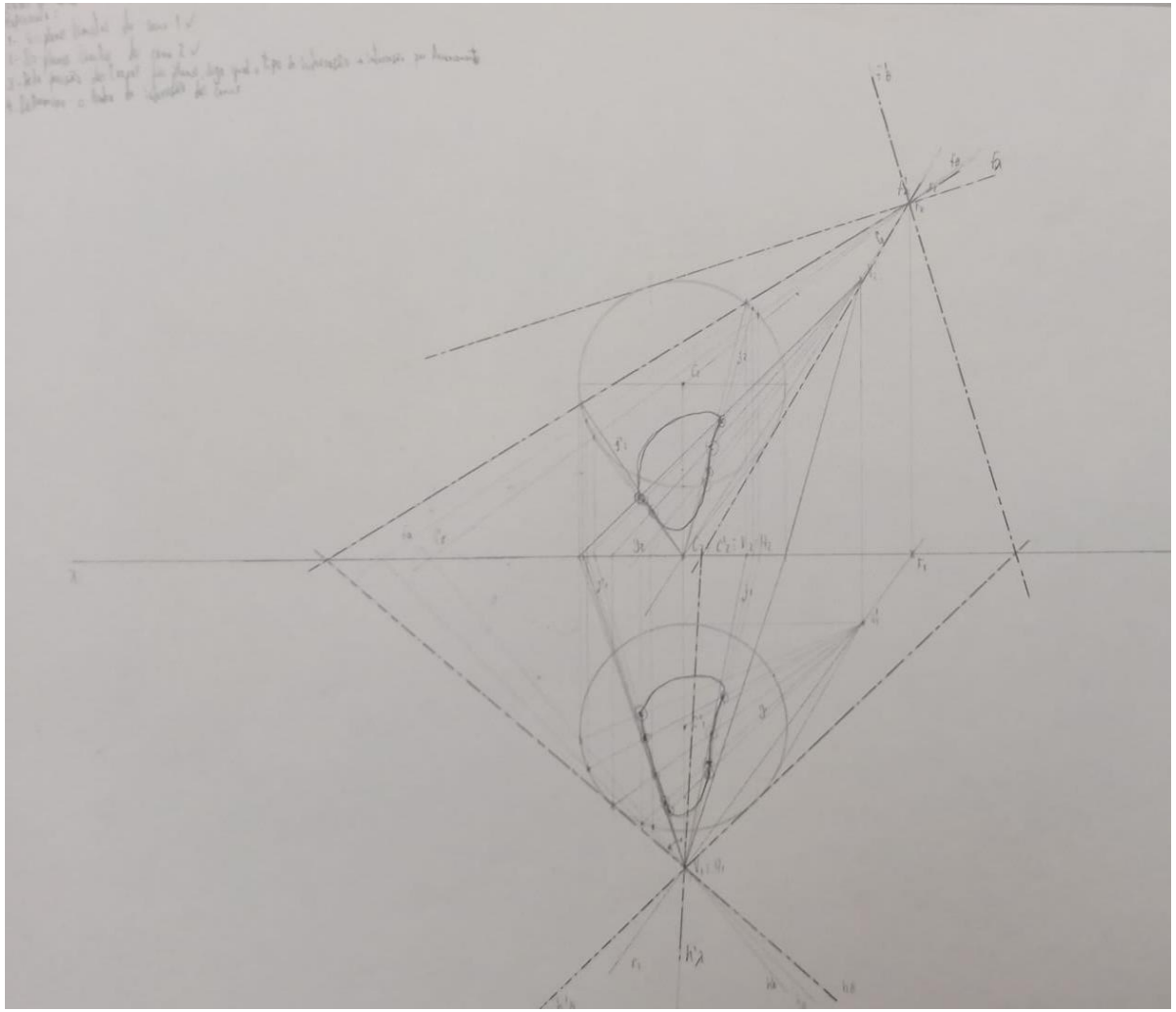
a) Indique a cota de implantação da plataforma;
c) Determine as cotadas de modelação do terreno, sabendo que os declives são: AT = 100%, Des = 150%.
d) Indique as linhas de nível final, para a cota imediatamente anterior à cota da plataforma
3- Usando declives de 45° e 60° alternadamente aplicados ao perímetro pentagonal, determine a cobertura da plataforma
a) Escolhi a cota 17, para que a área de aterro e desaterro sejam semelhantes
d)
21
20
19
18
17
16
15
14
13

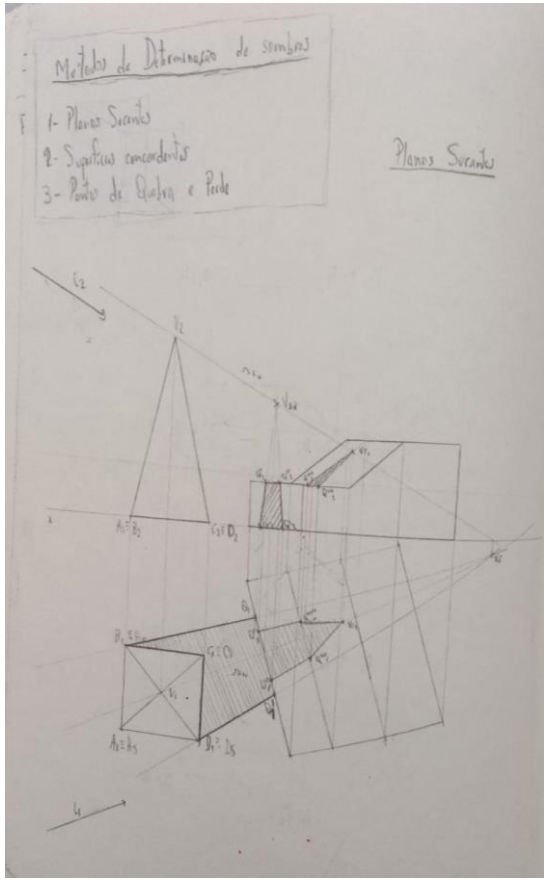

Como a nível de estrada 16 está sobre a linha 16 de cota, o aterro e escavação são a partir desse ponto

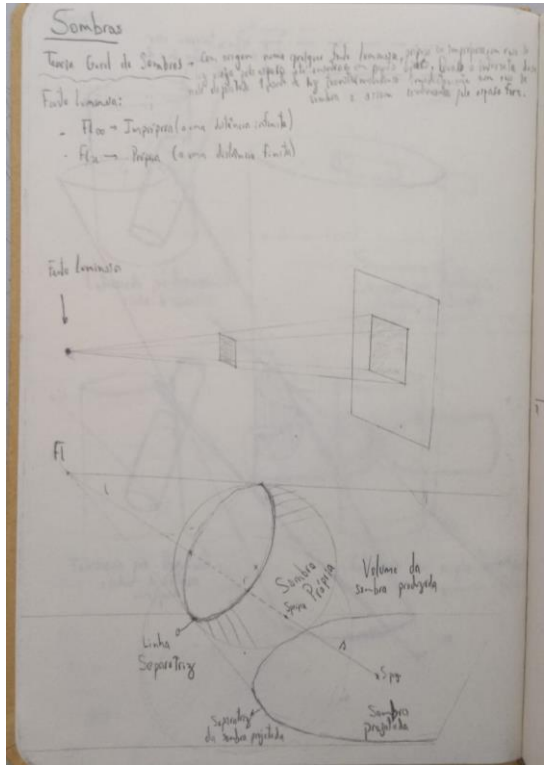

Interseções
Intersecção por Arrancamento
1 linha de intersecção
Intersecção por Penetração
2 linhas de intersecção
Intersecção por Bersamento
2 linhas de intersecção
com ponto
Intersecção por dupla Penetração
2 linhas tangentes em 2 pontos

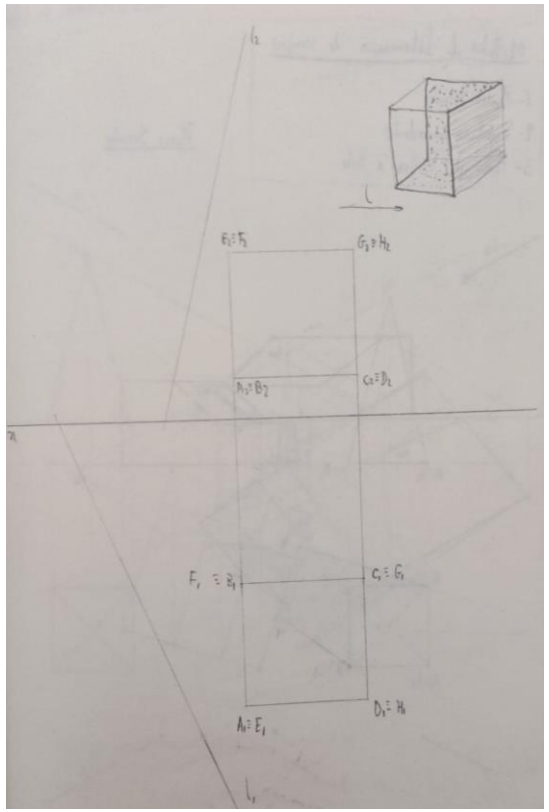

θ2
λ2
θ1
λ1
λ1
θ1
λ2
θ2

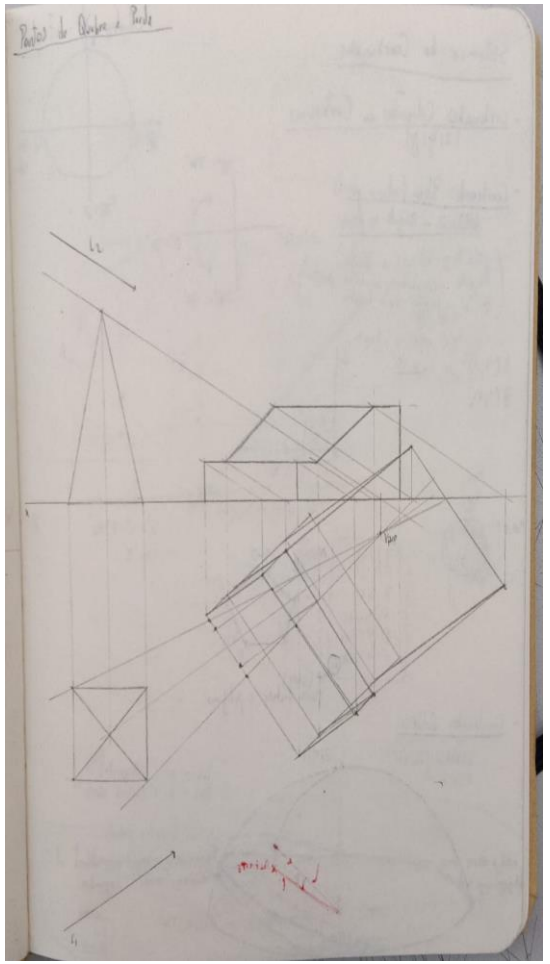


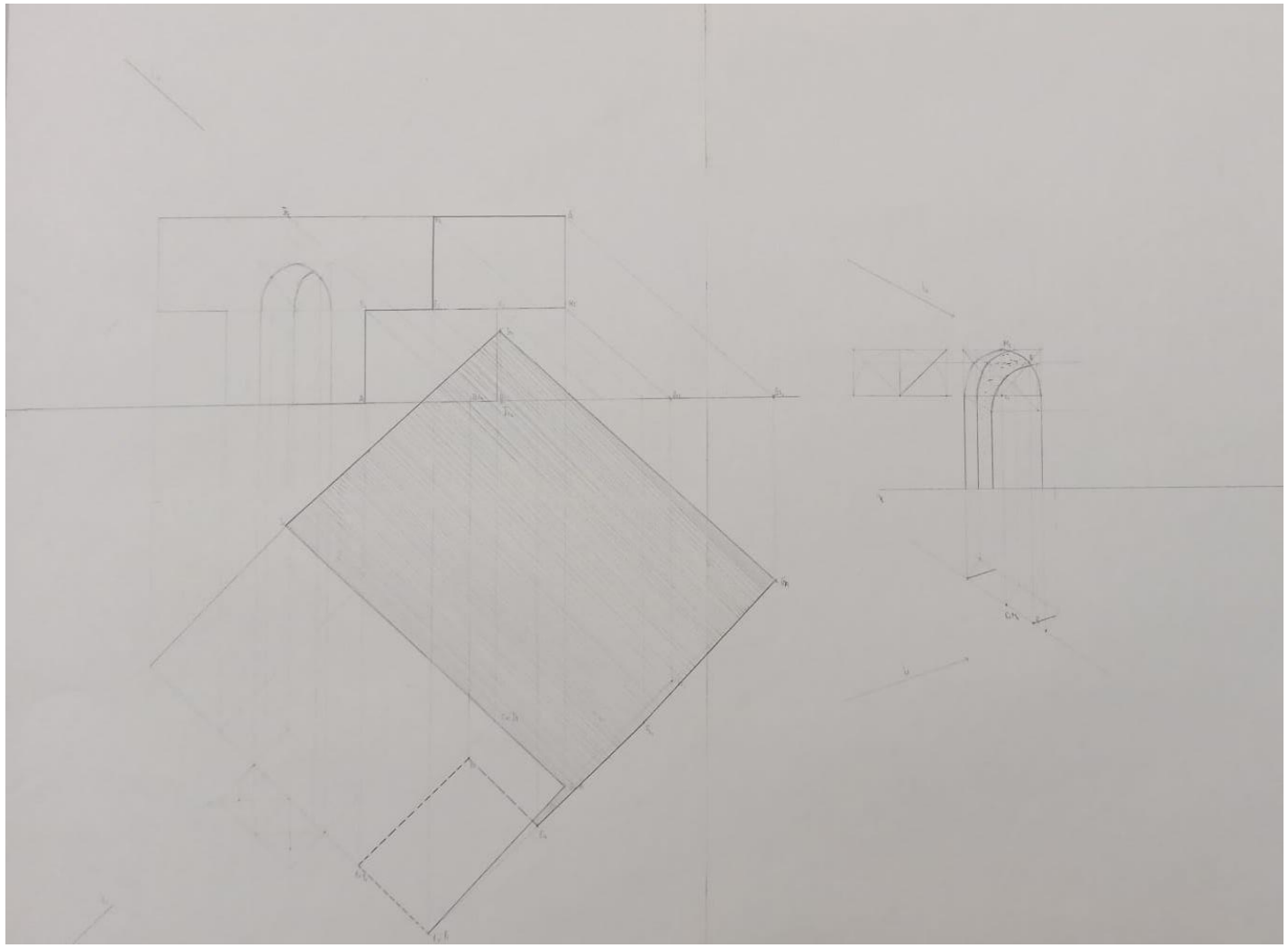


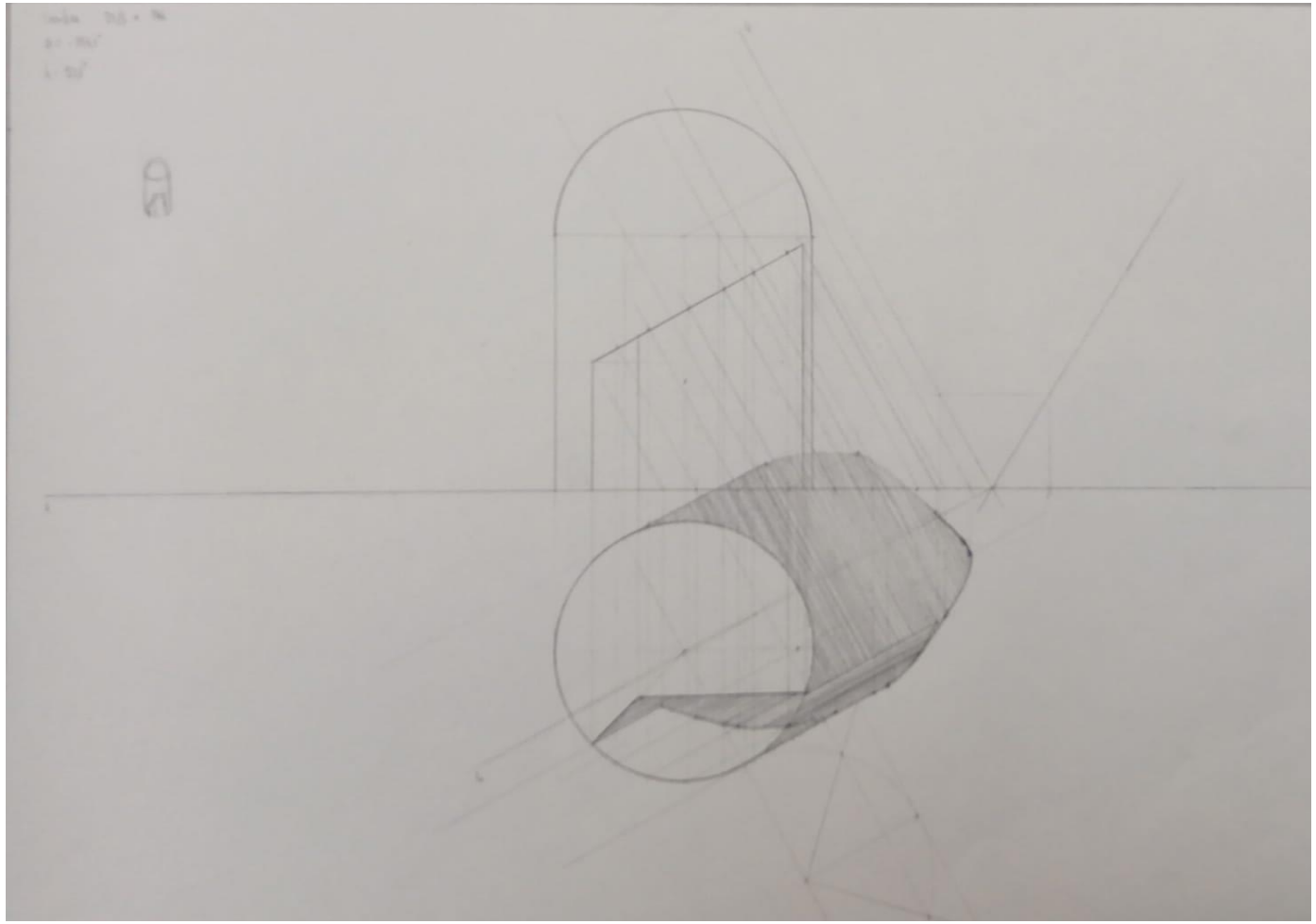

Métodos de Determinação de sombras
1- Planos Secantes
2- Superfícies concordantes
3- Pontos de Quedra e Perda
Planos Secantes

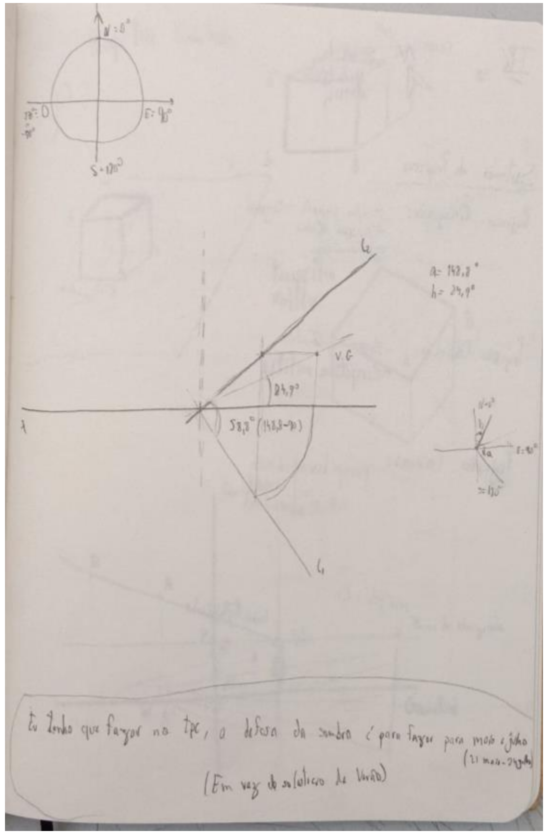

Sombras
Fonte luminosa:
Fonte luminosa
Fl
Sombra Sobre Própria
Volume da sombra projetada
Linha Separatriz
Superfície da sombra projetada
Sombra projetada

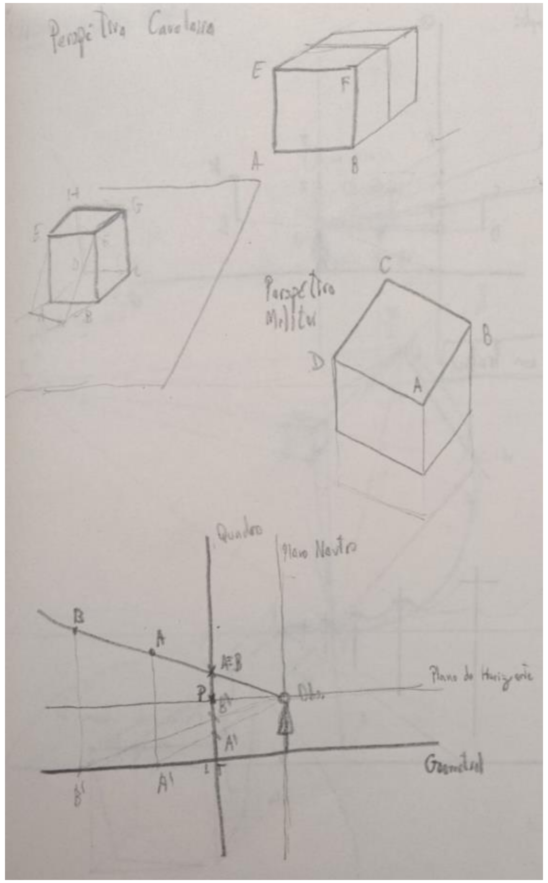


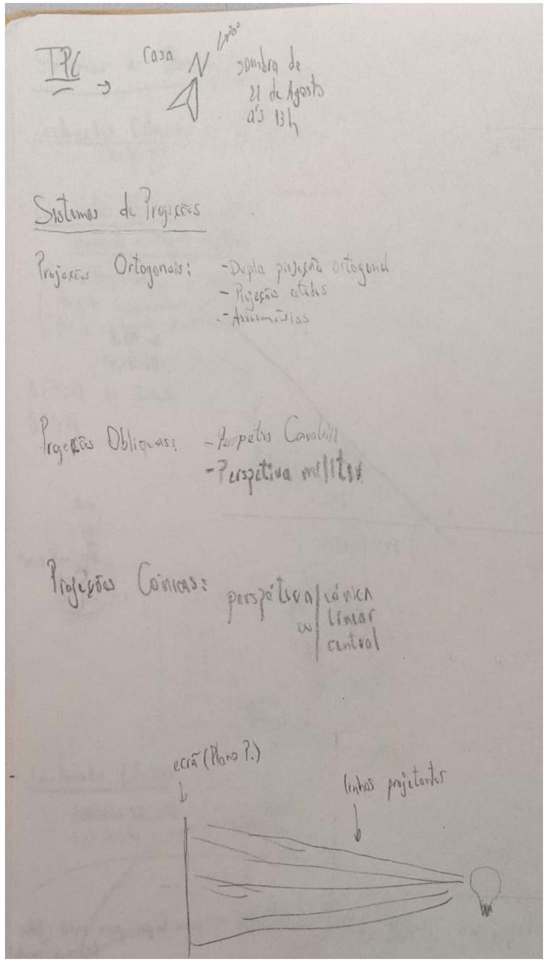

Partes de Quedra e Perda

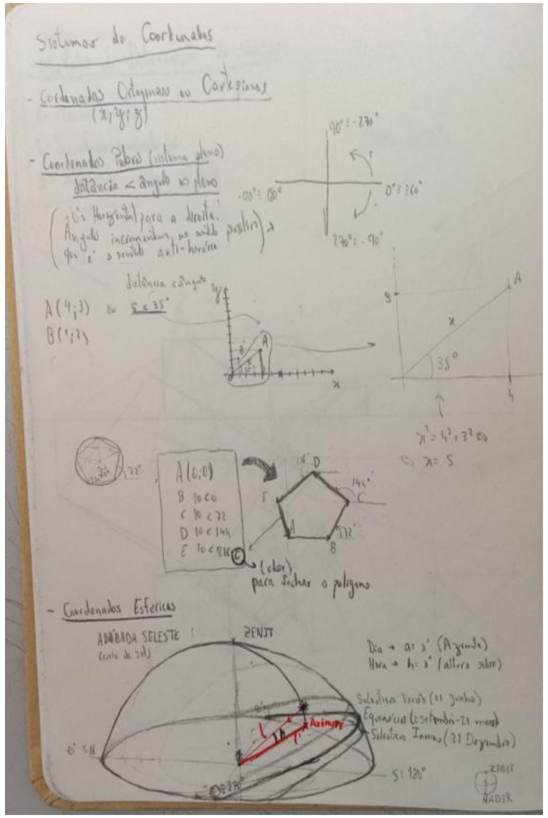


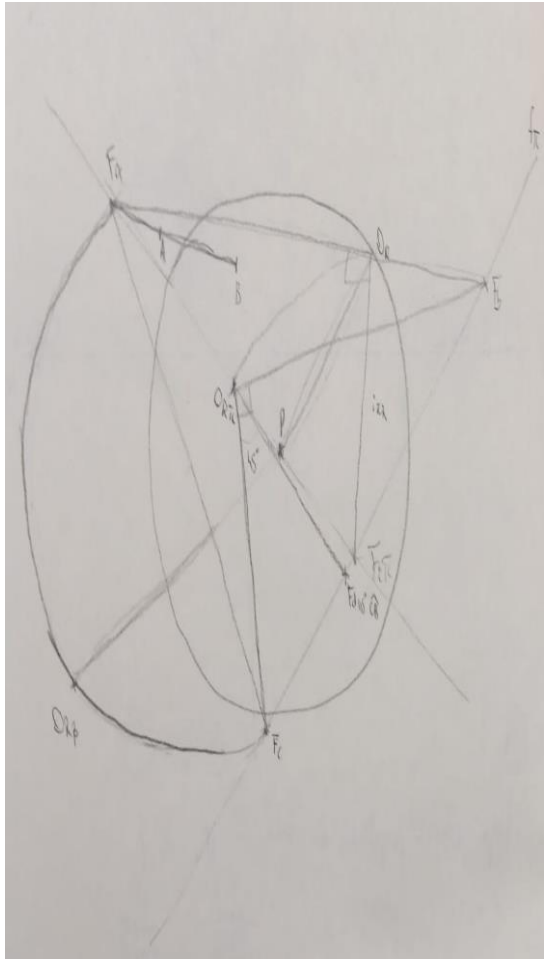


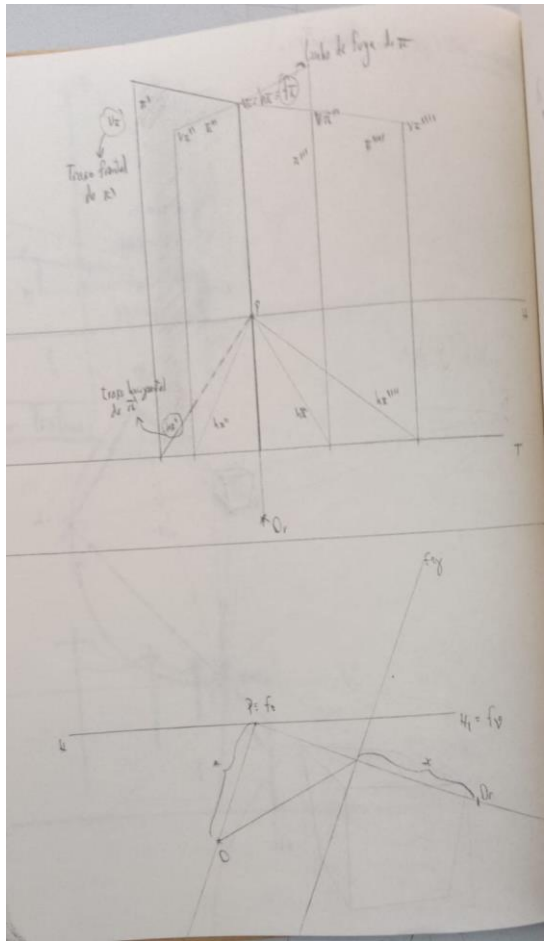


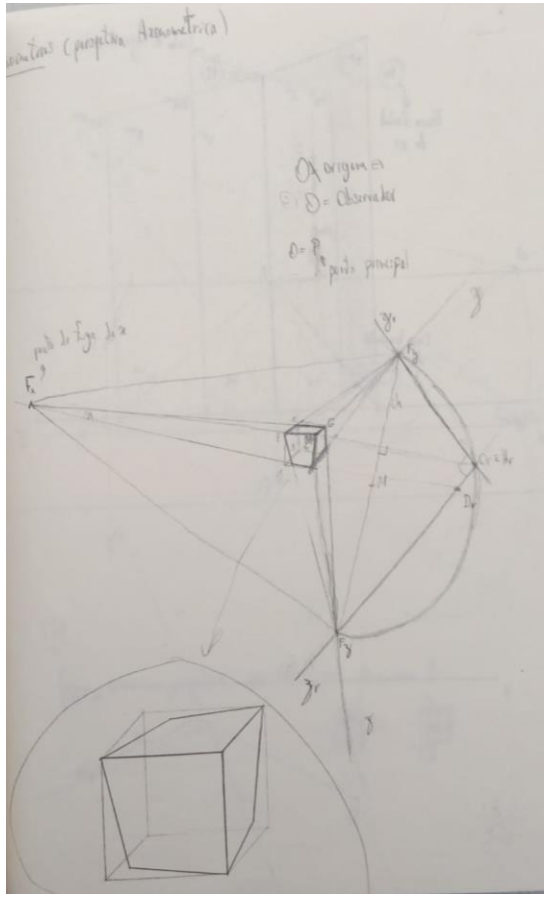

Perspetiva Cavaleira
Perspetiva Militar
Quadro
Plano Neutro
Plano do Horizonte
Geometral

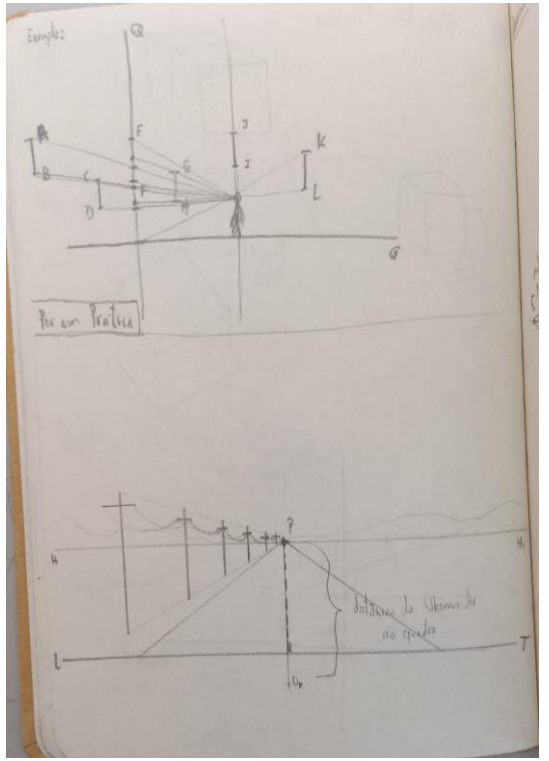

TPC
Sistemas de Projeções
Projeções Ortogonais:
Projeções Oblíquas:
Projeções Cónicas:
linhas projetantes

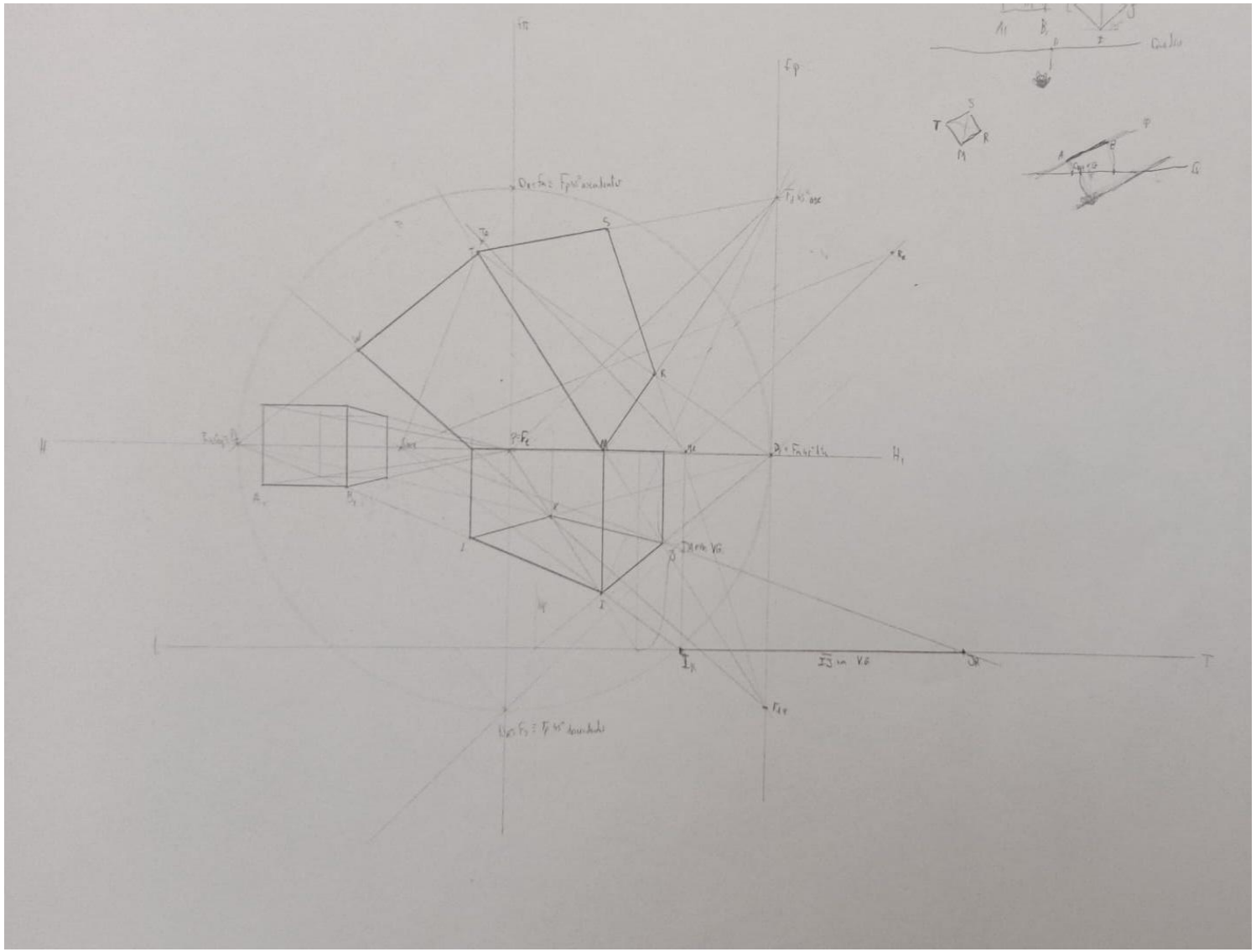

Sistemas de Coordenadas
Coordenadas Esféricas
ZENIT

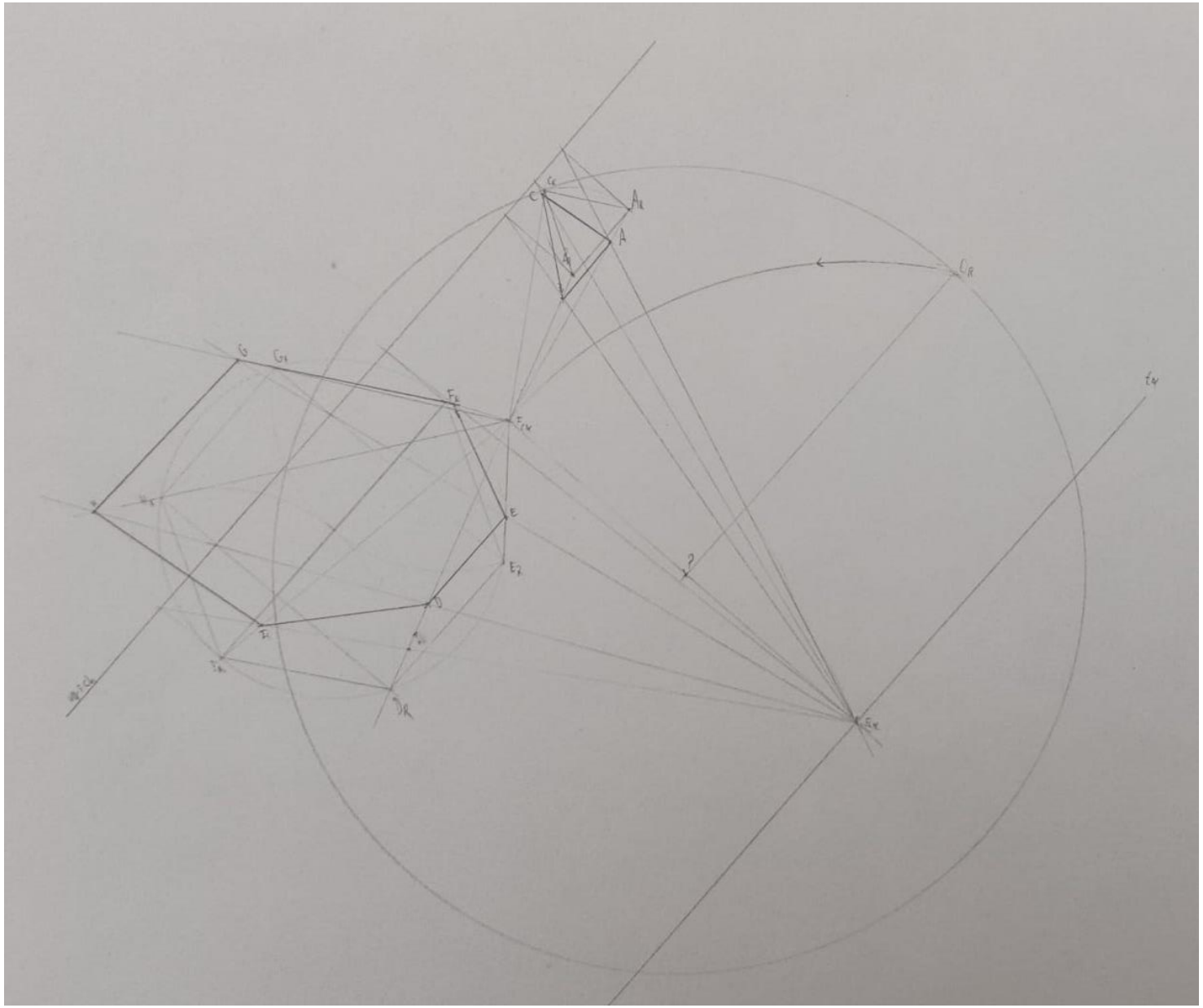











C
A
G
E
D
P

OBRIGADO