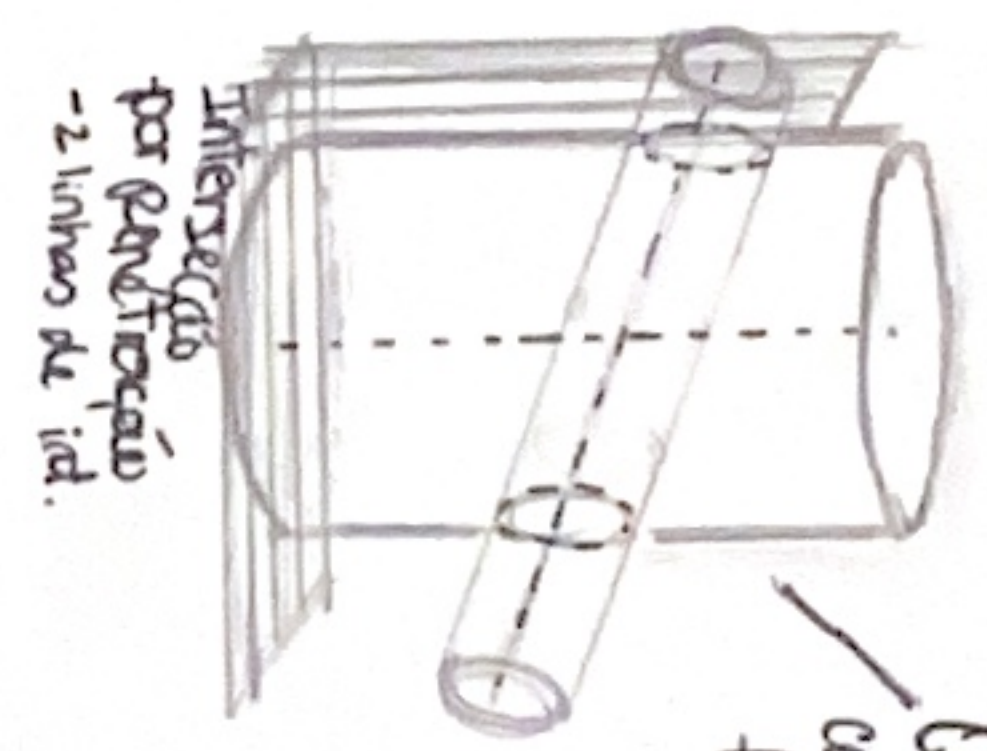
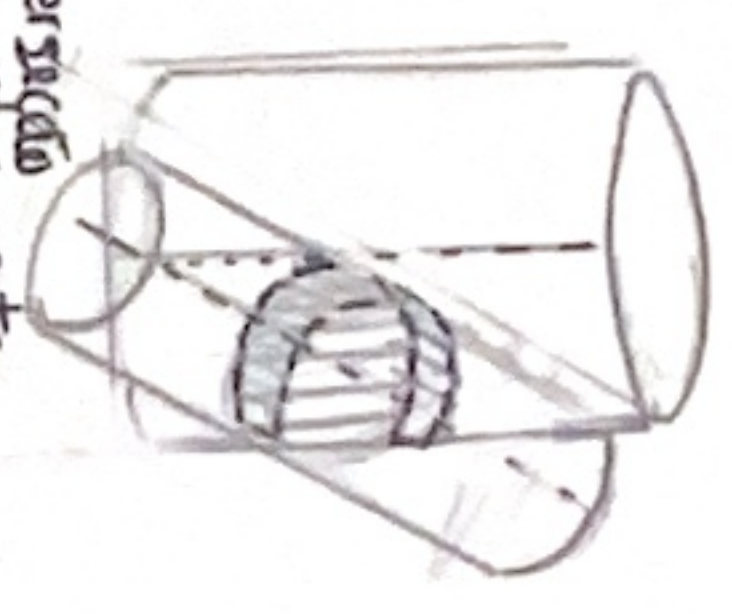
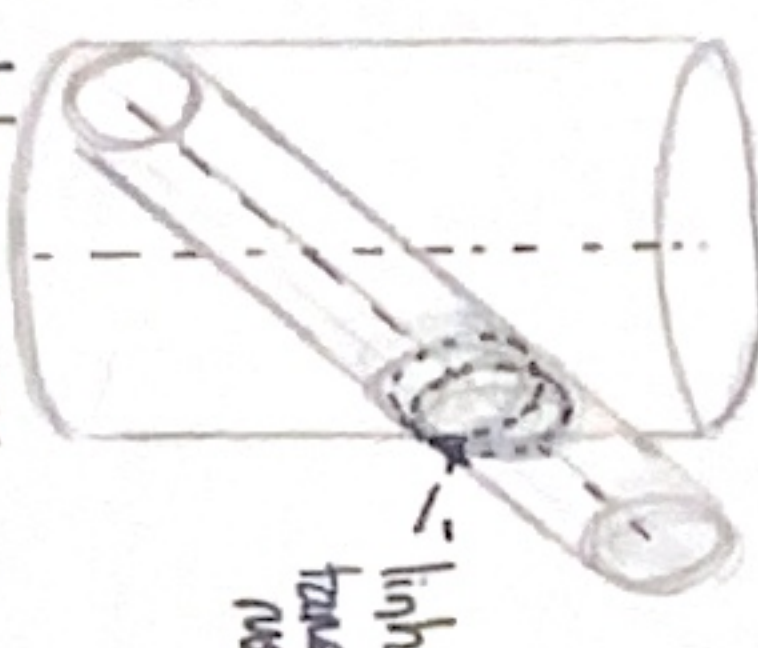




Interseção por arrolamento  
- 1 linha de int.



Interseção por penetração  
- 2 linhas de int.



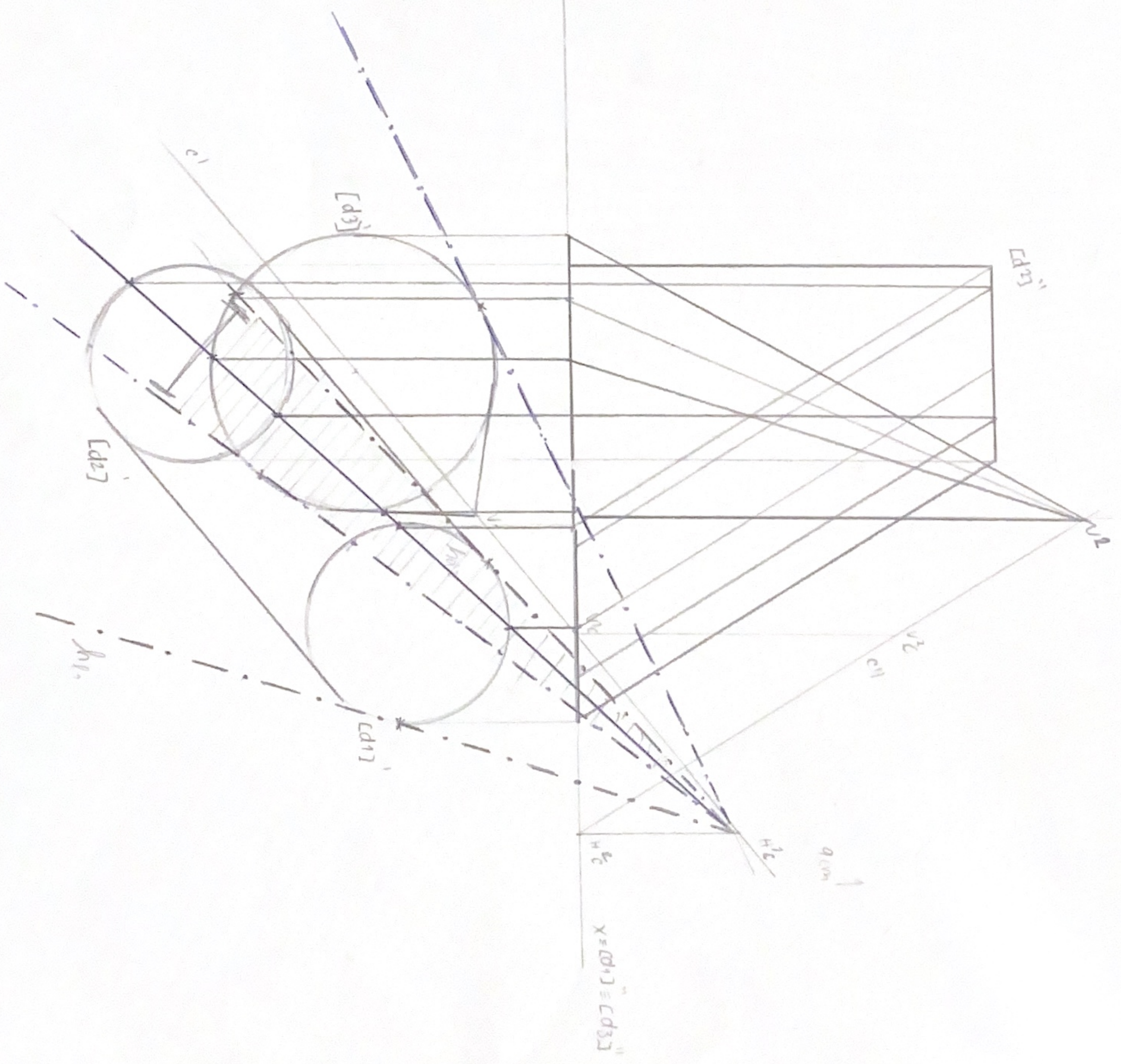
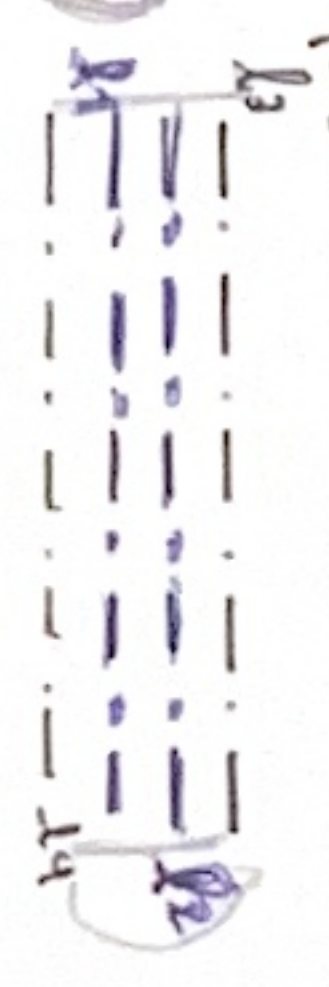
Interseção por tangência  
- 2 linhas tangentes em 2 pontos.



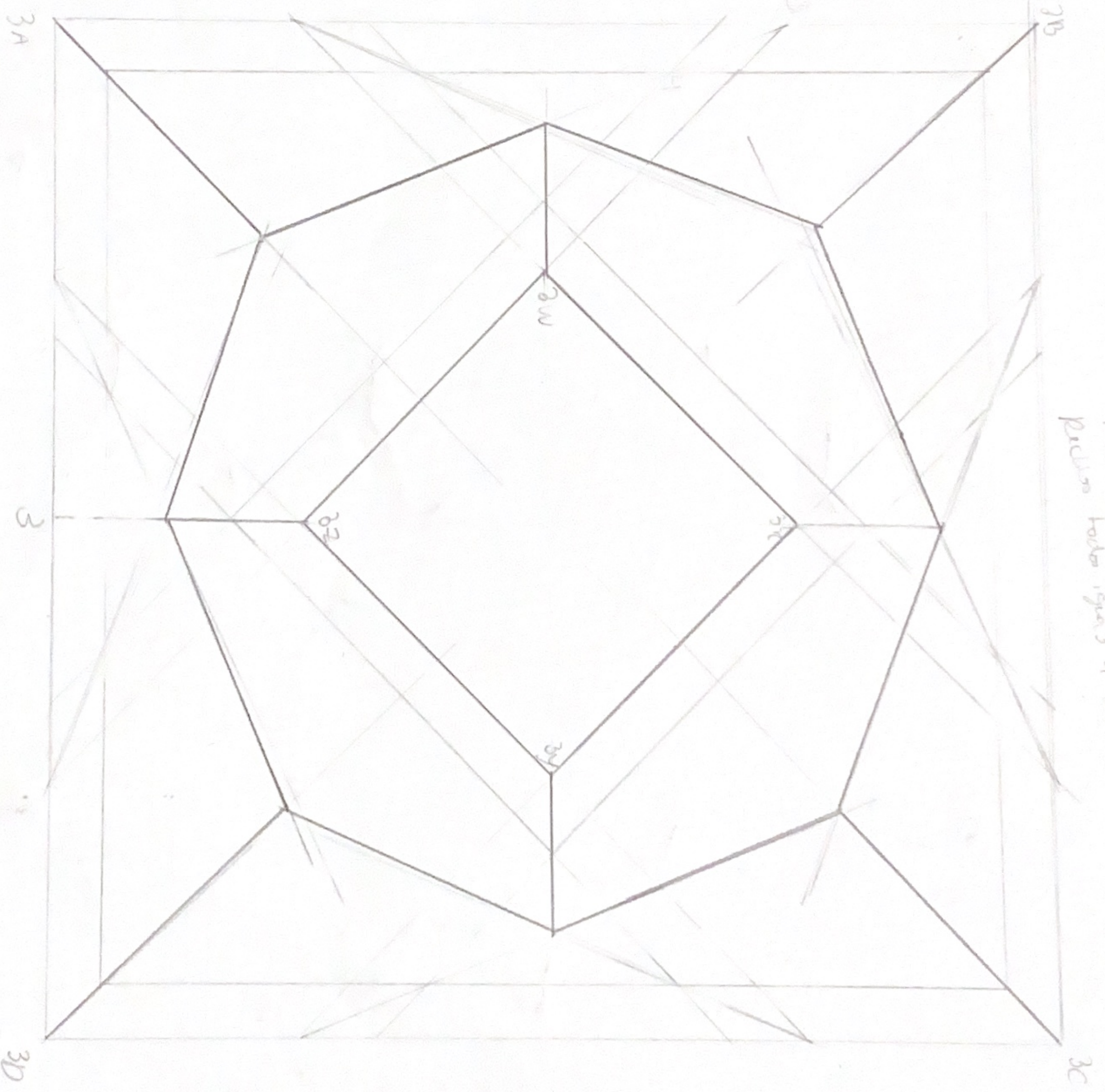
l1 = l2  
l3 = l4

Planos limite - direções da geometria da figura  
Planos

Os os planos limite (concordantes com as superfícies) de uma figura ficam dentro do limite da outra.







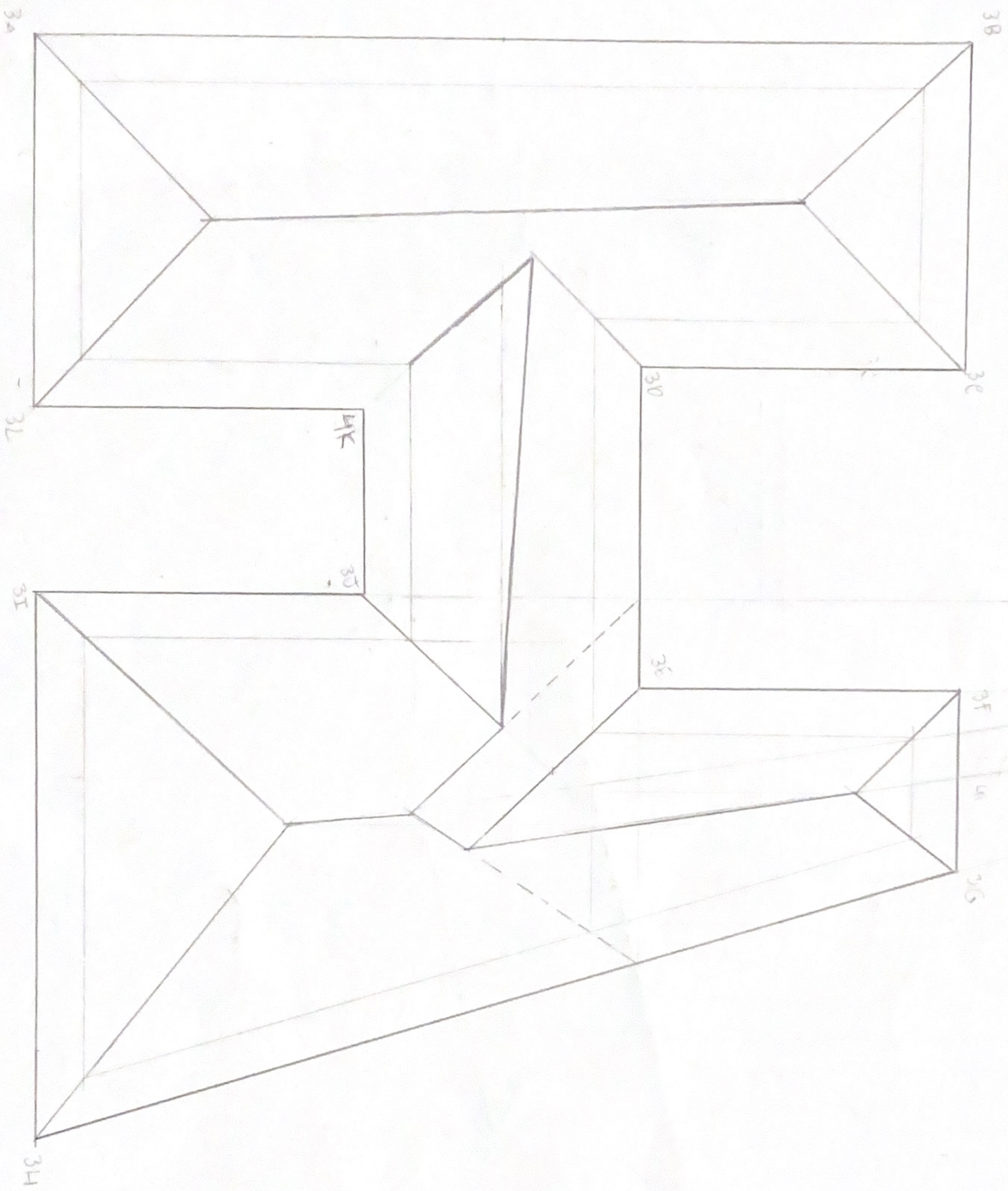
1 m = 1 m  
 1-100 cm  
 Prolongar hasta llegar a 100/1



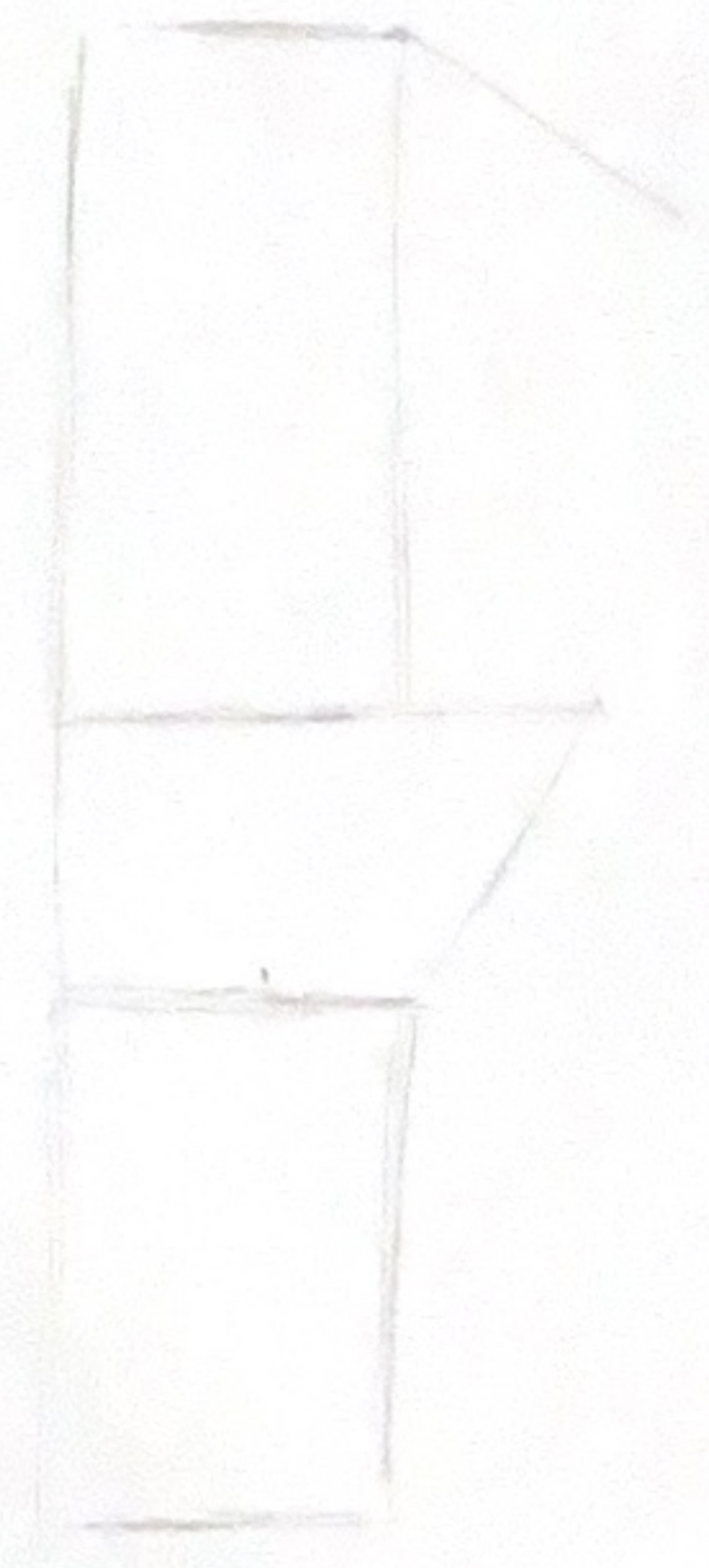




1 cm = 1 m

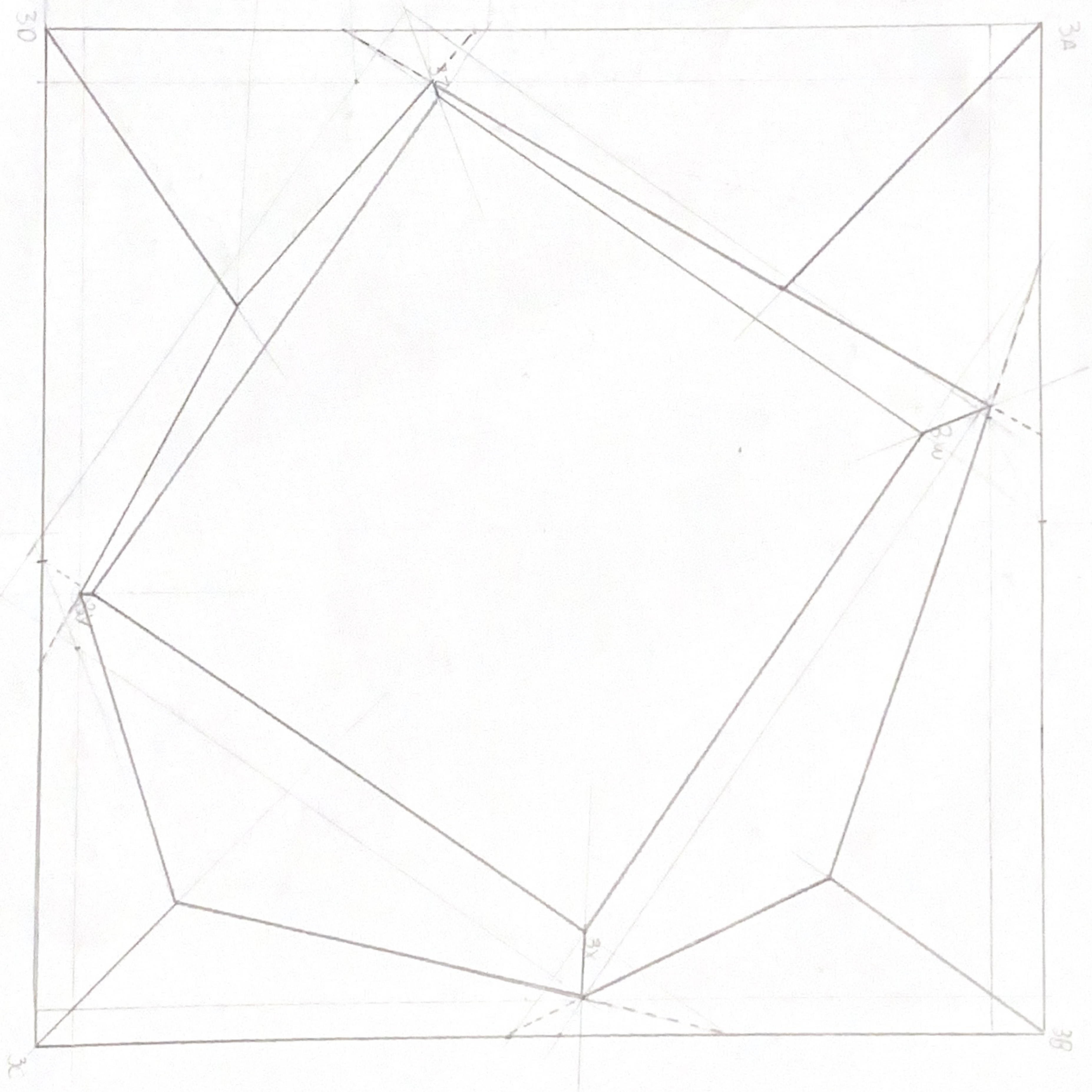
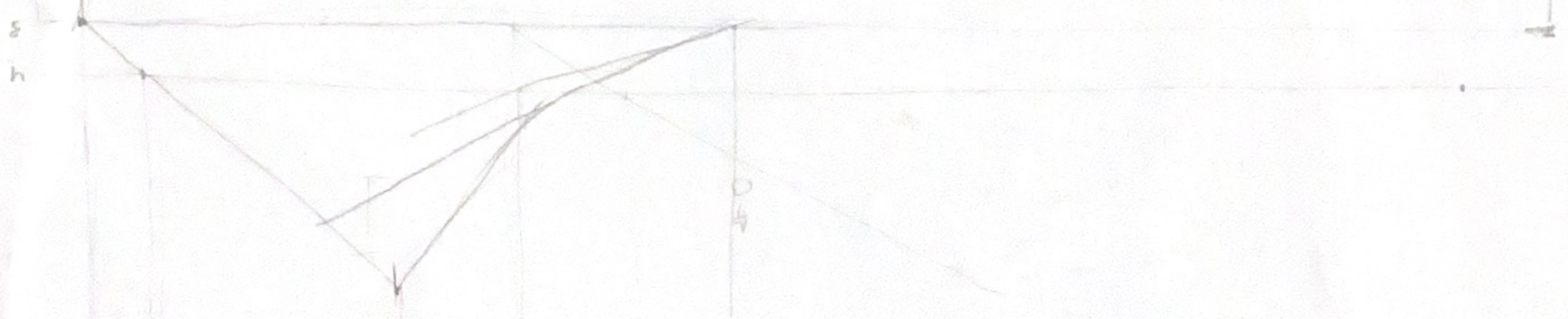


Handwritten notes in the right margin, possibly including a signature or name.

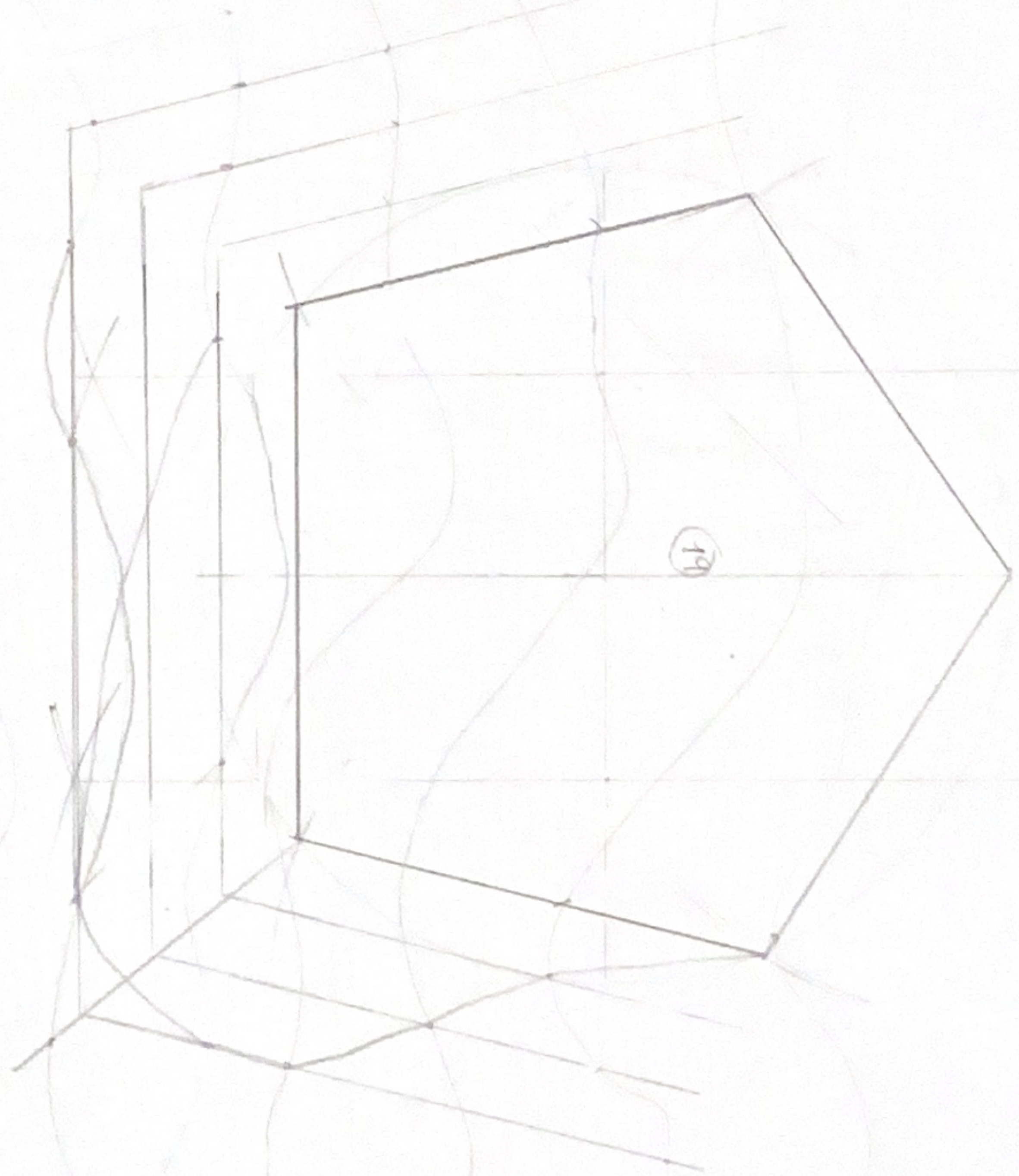


Handwritten notes at the bottom right of the page, possibly describing the drawing or providing a signature.









13 14 15 16 17 18 19 20 21 22

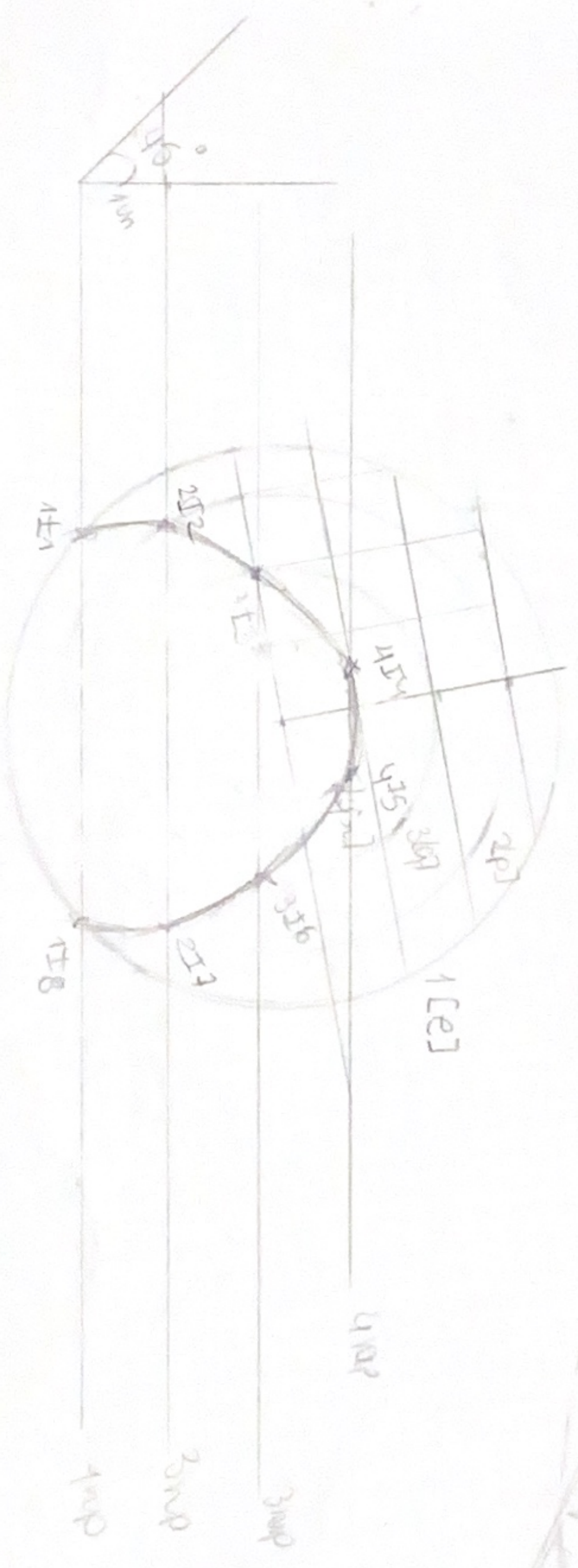
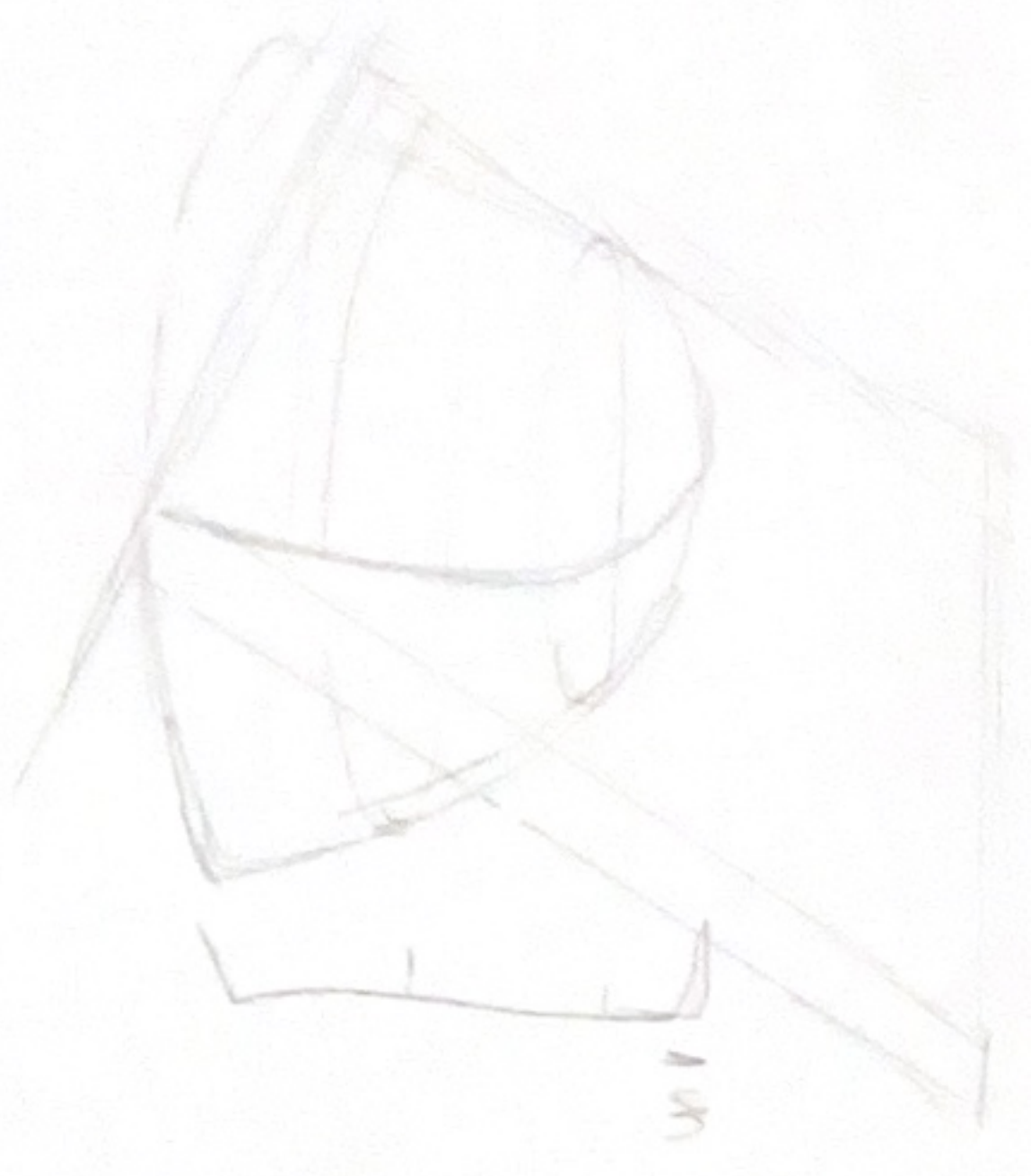


A 2 retas A e B perpendiculares entre si

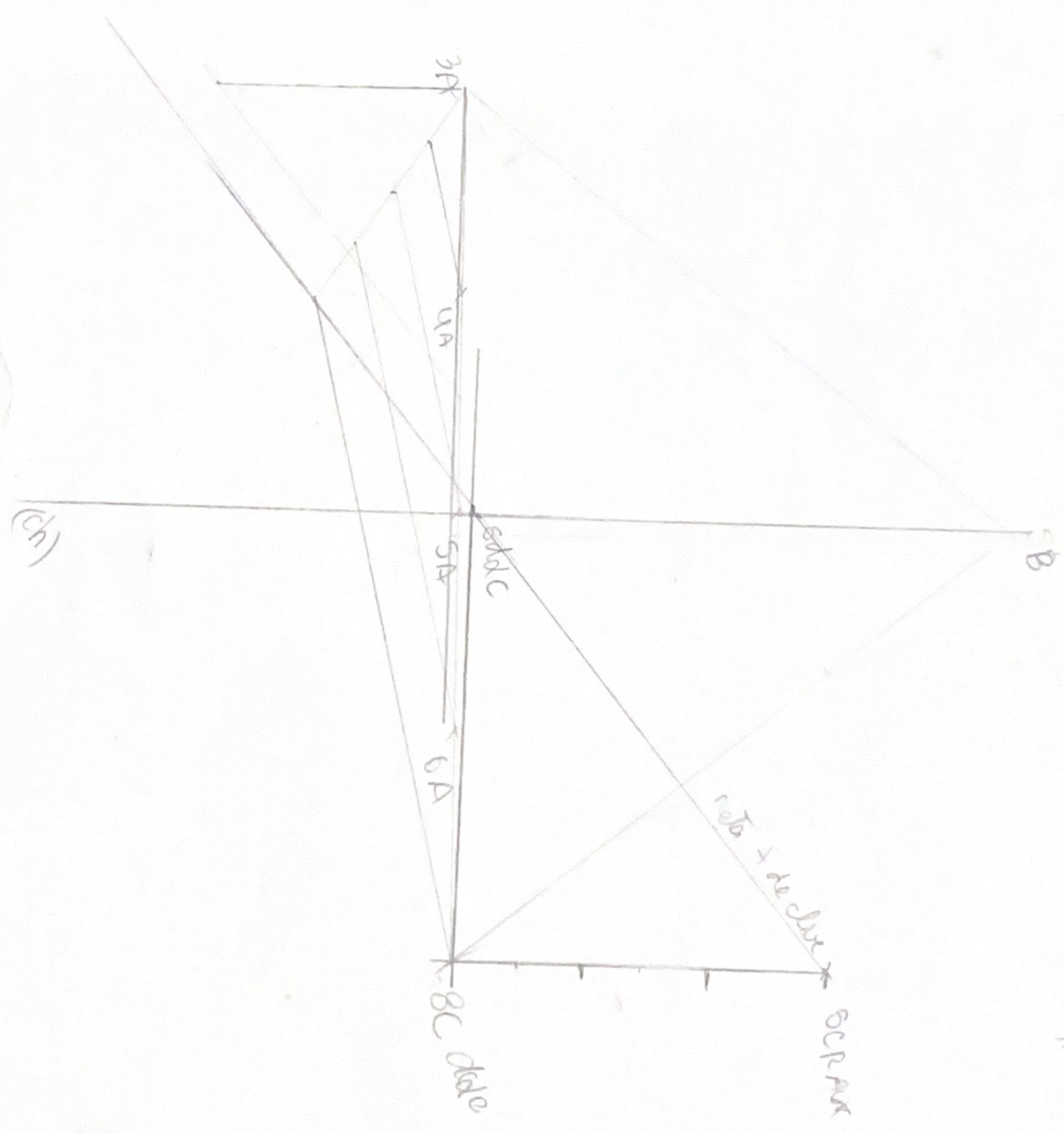
Calde Esplanca

A 2 proj perpendiculares A' B' no plano mais comproprios  
 notas I entre si no espaco II, nenhuma das retas por de nivel ( $\pm$  ao p. de proj)

$\alpha = 45^\circ$

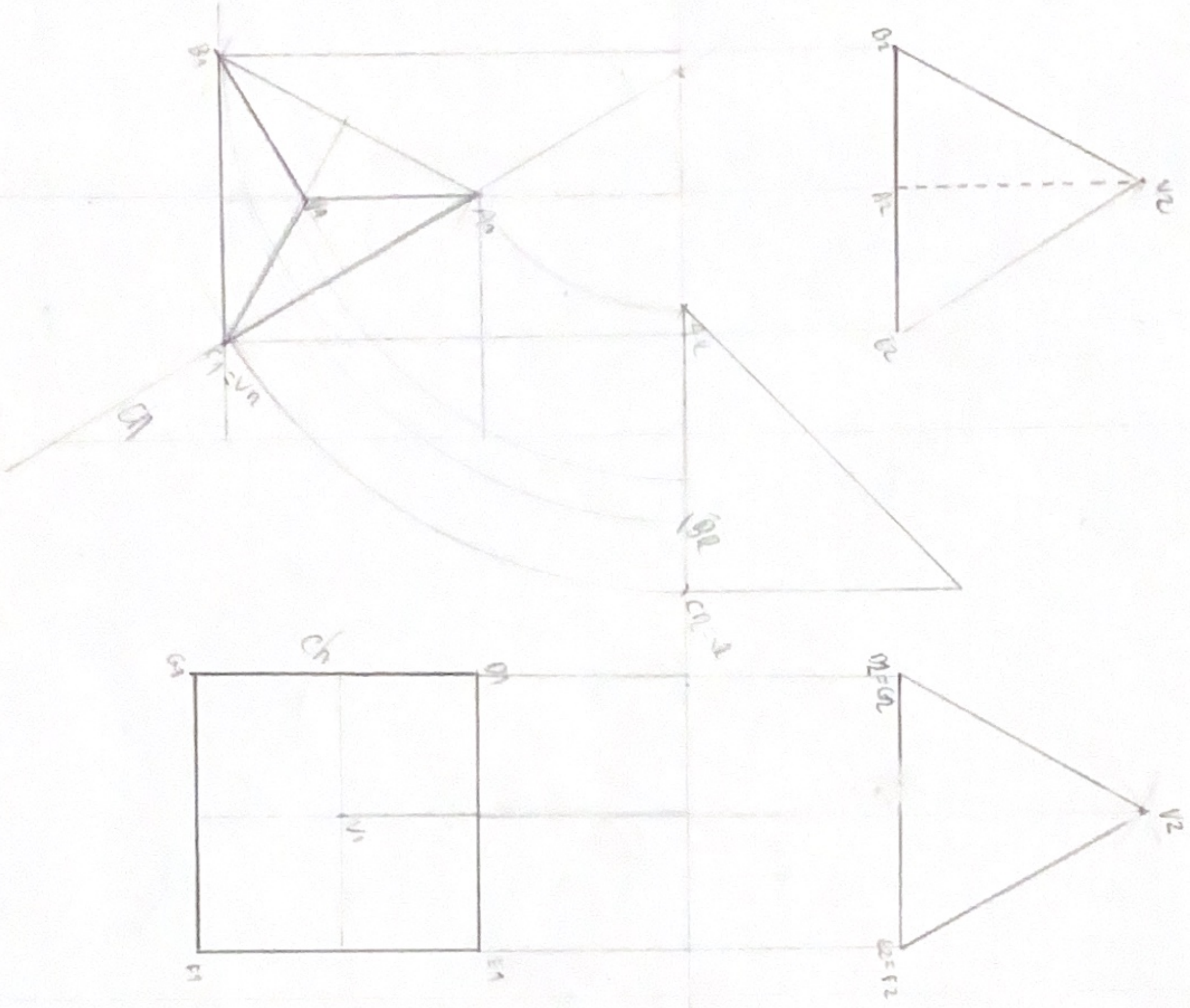






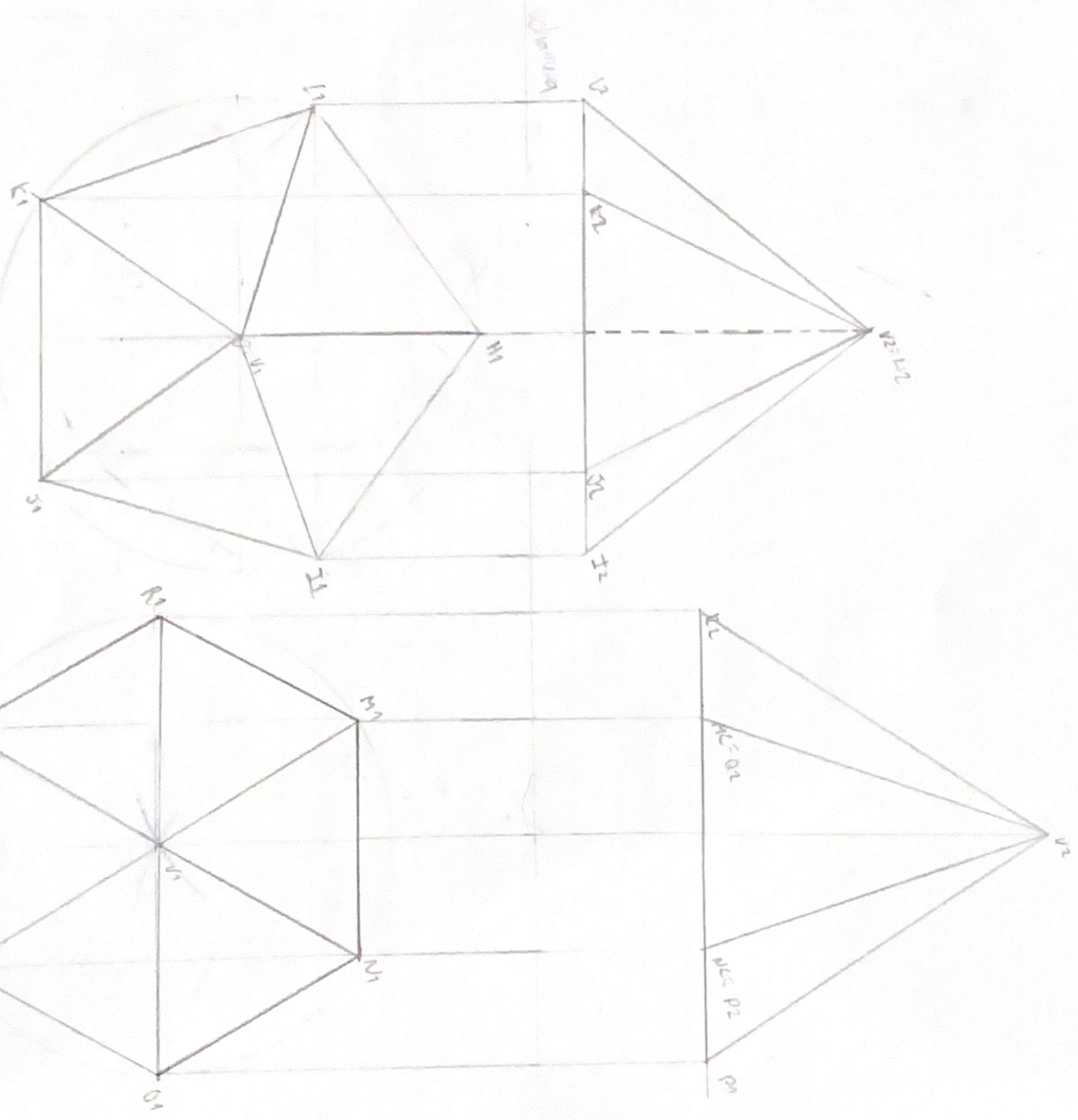


Requisito: a mão da altura (folha) e o raio  $r$ , e abaisso diste 4 fregues plenos. 1  $\Delta$  equilateral, 1  $\square$ , 1 pentagono regular e 1 hexagono. Todos lados a  $4\text{ cm}$ .  
 (construções em bases poligonais)  $4\text{ cm}$



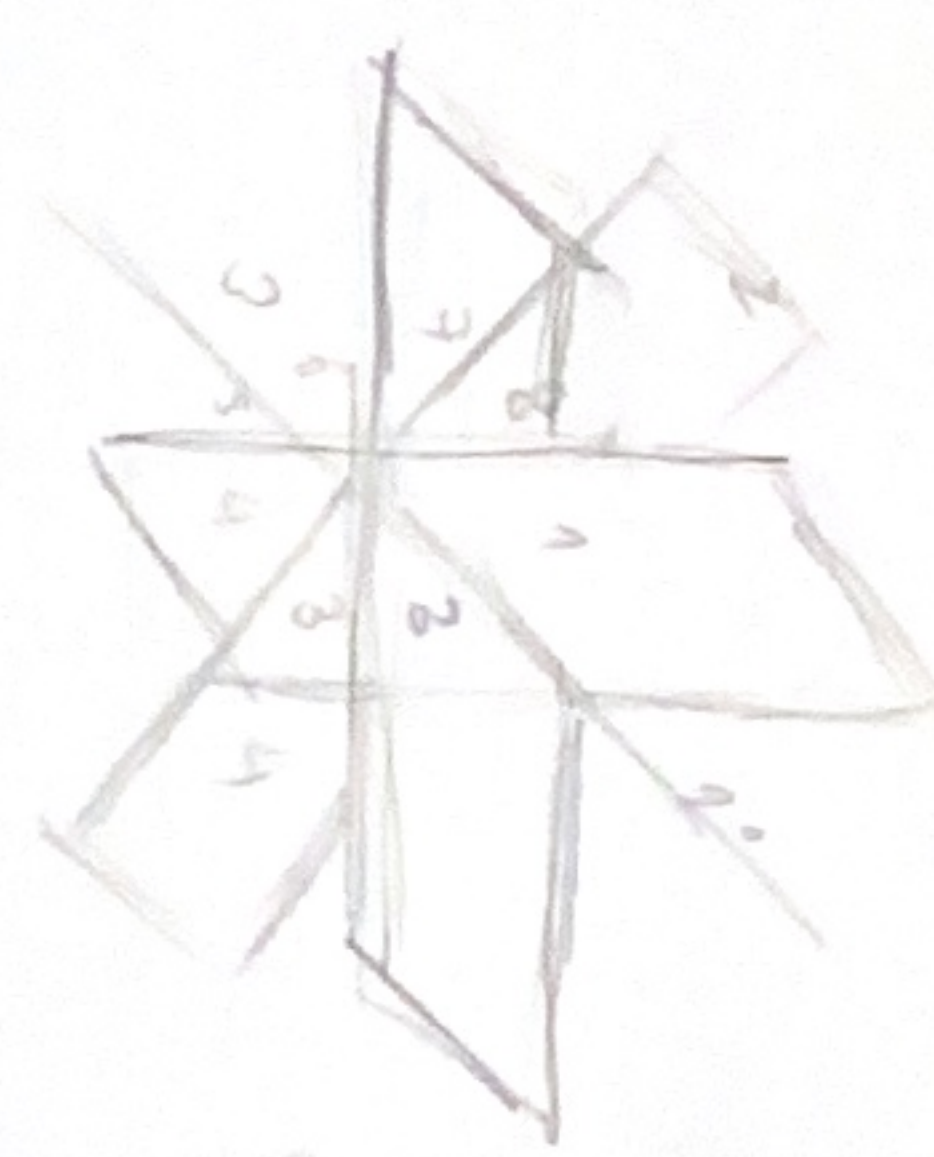
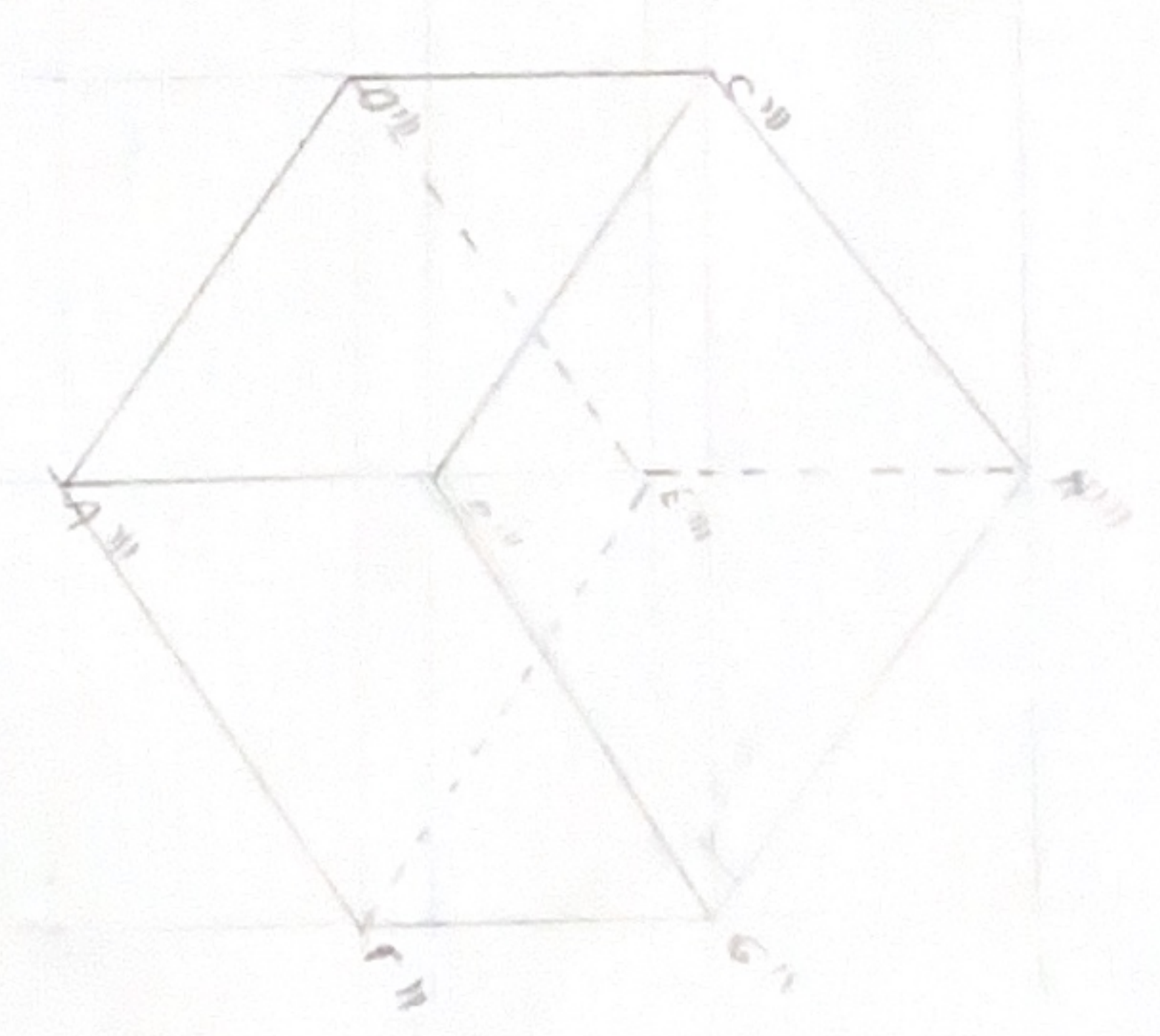
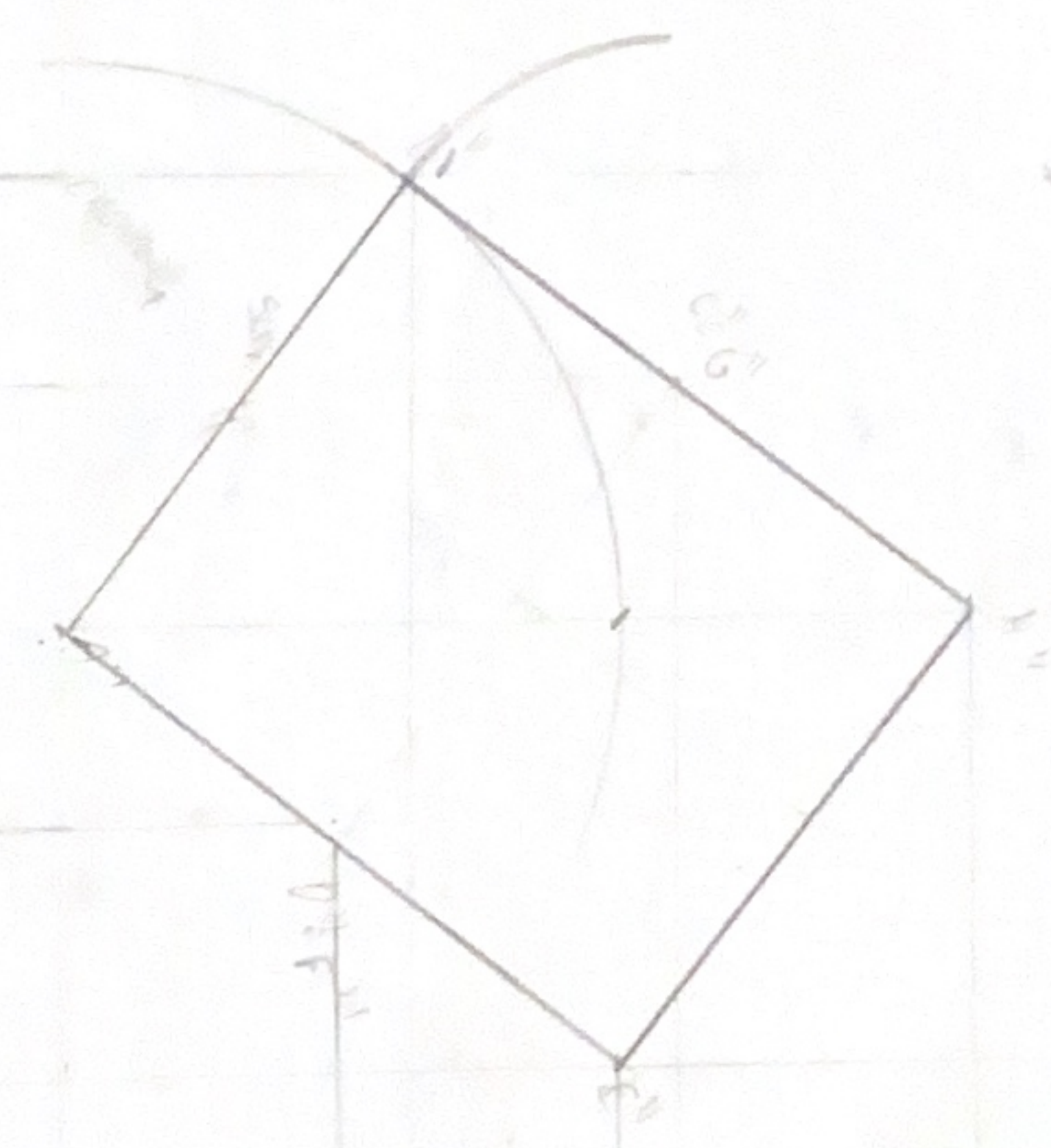
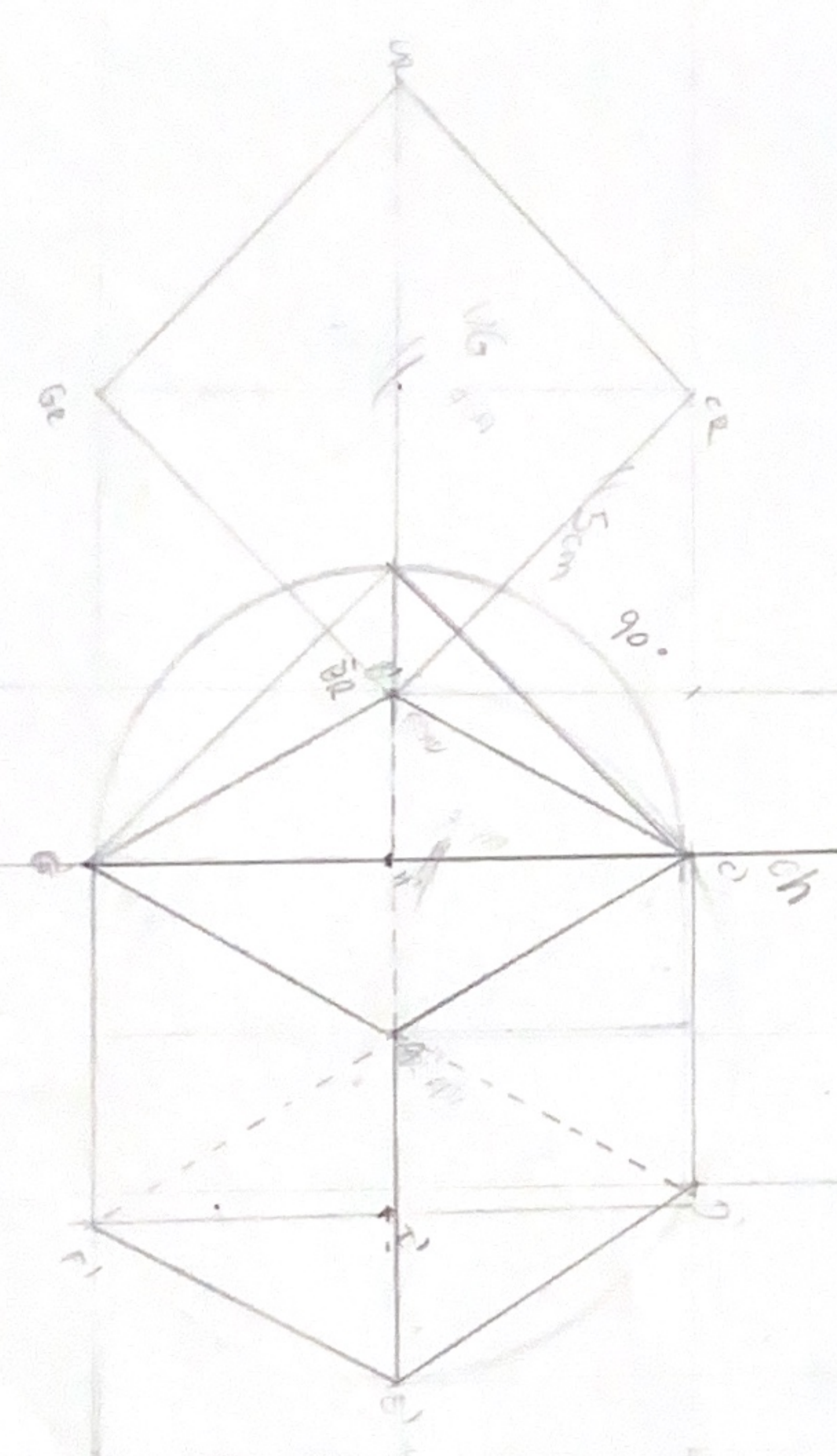
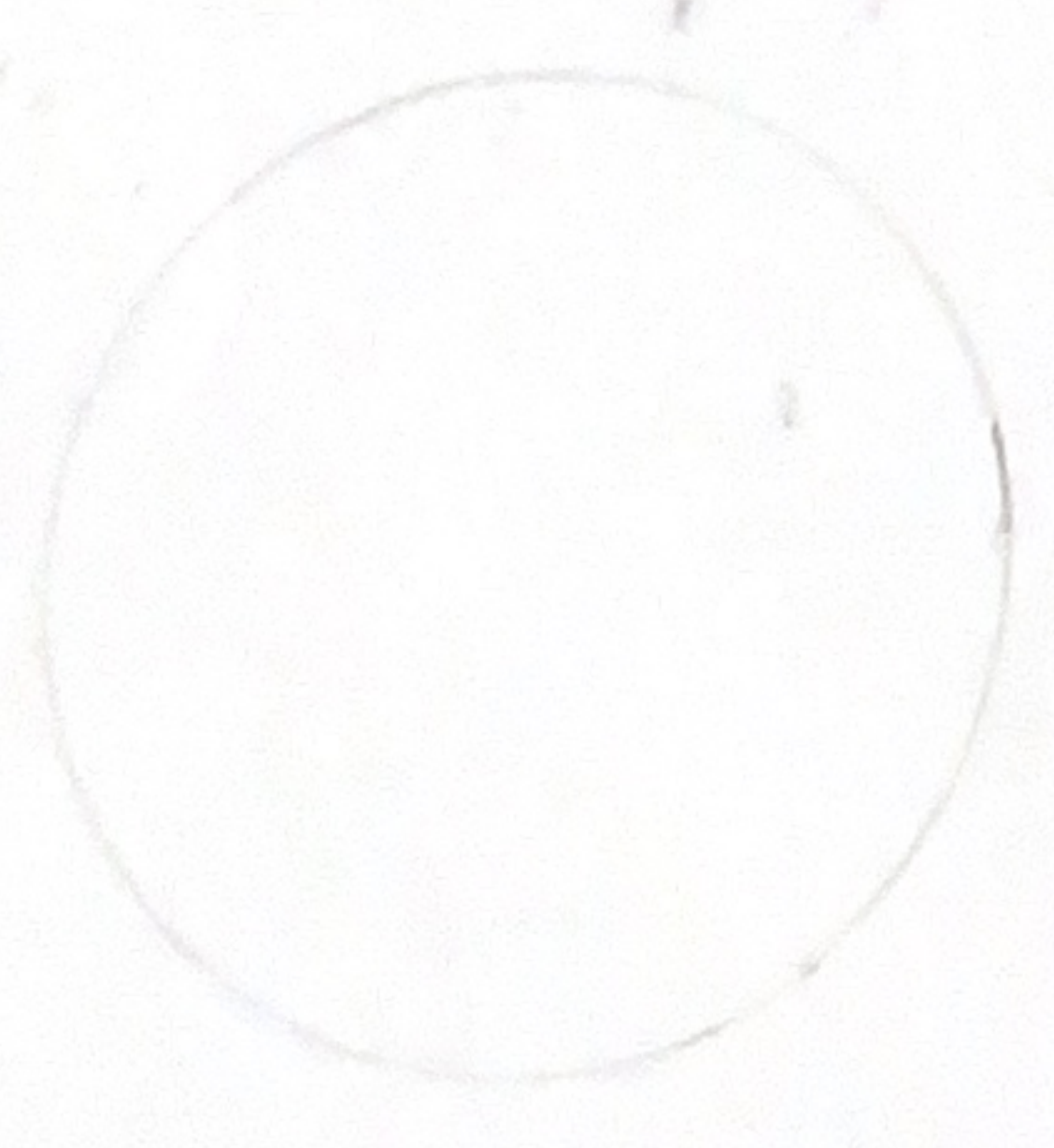
Vertical

Rebatedos !!!



Vertical





Height

Height

Height

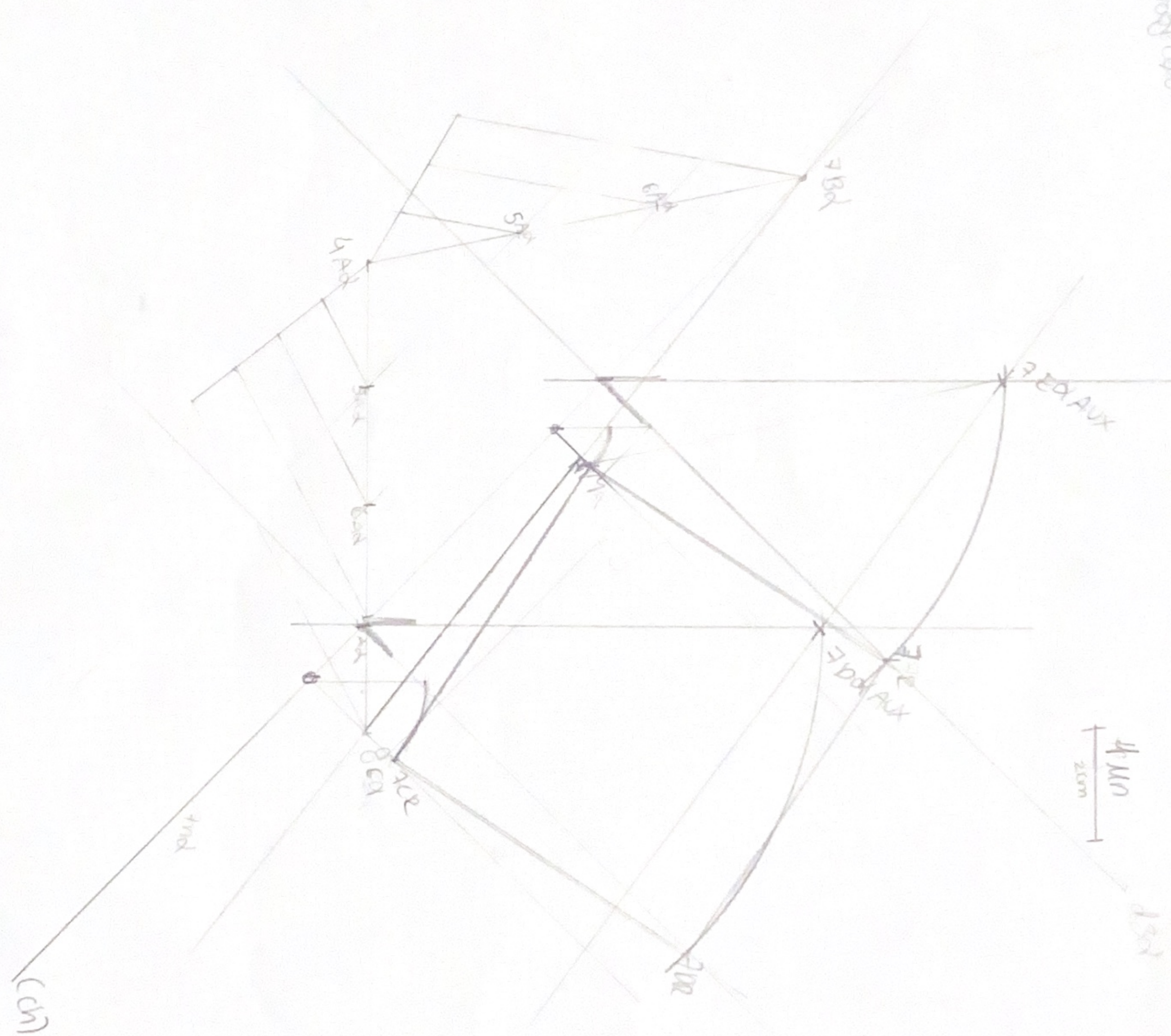


1<sup>a</sup> quadrante retas  
2<sup>a</sup> define retas de nivel com pontos da mesma cota





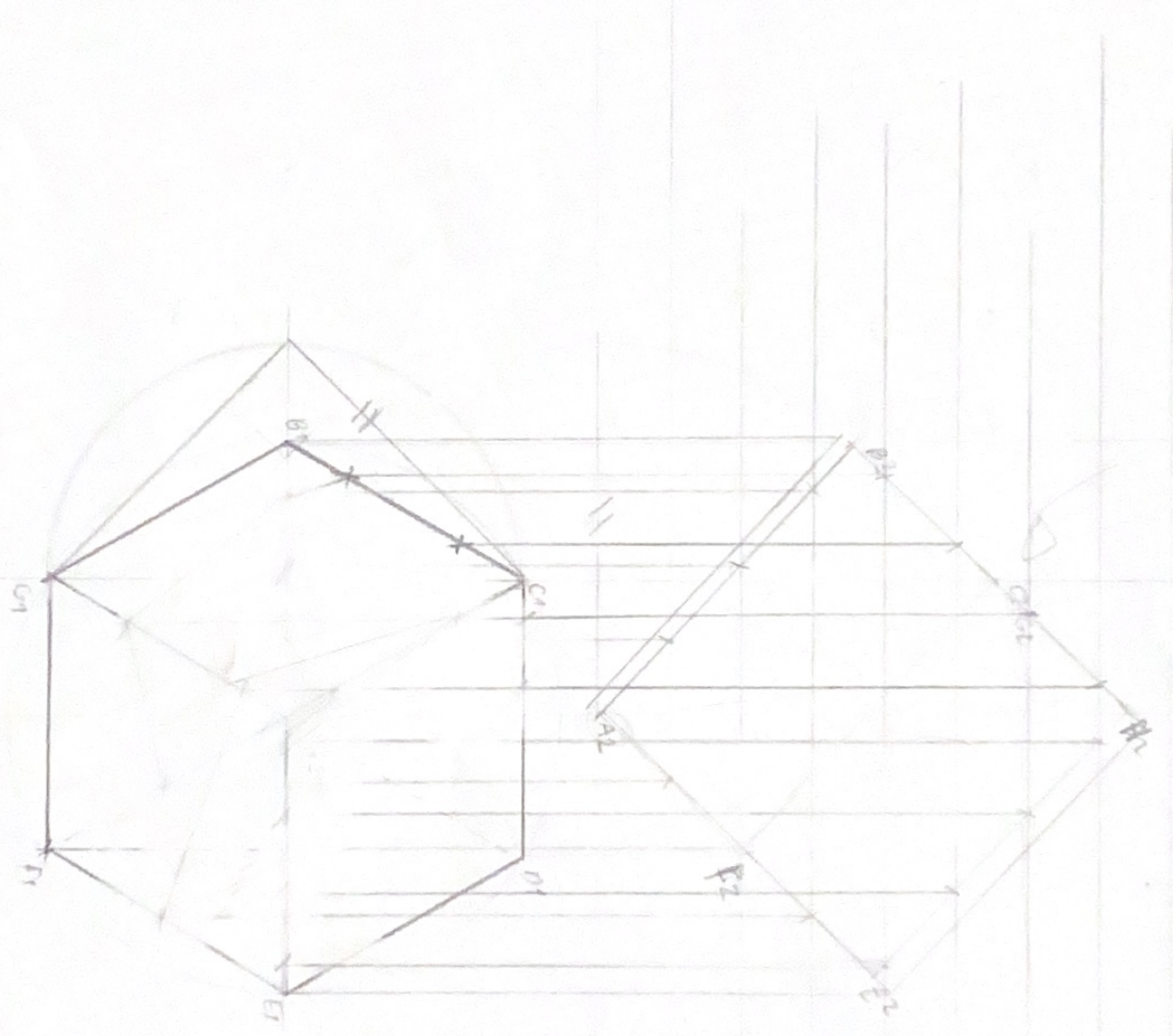
$\frac{1}{2} \underline{B\bar{C}}$  é lado do  $\square MPCE$ , portanto em  $d$   
 Determine a sua projeção



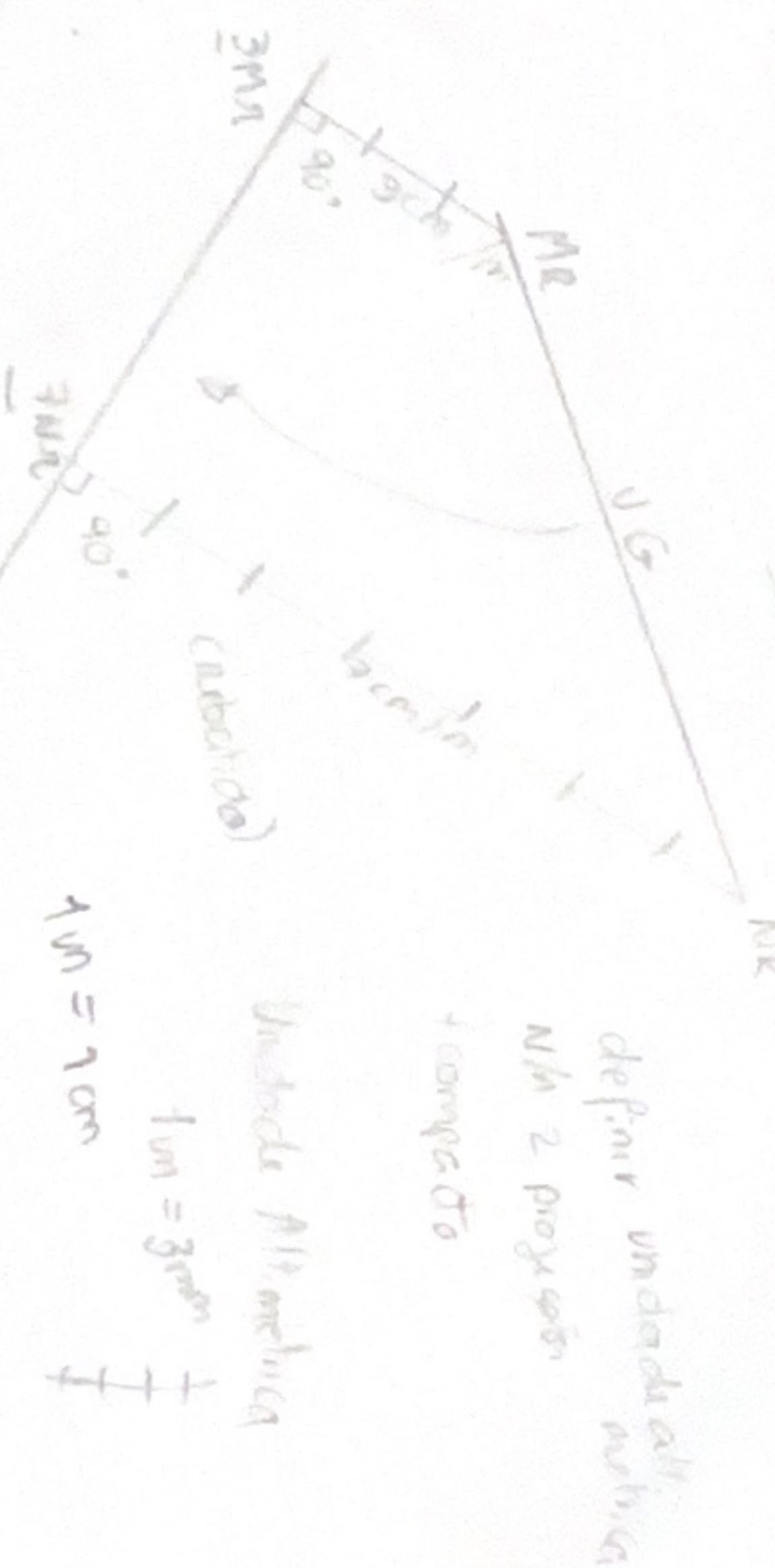
Ch em posição iguais



Active  
Passive



Projections, Circles



planos verticais  
 definir unidades auxiliares  
 2 progressões  
 compacto  
 Unidades 1/10 m (1cm)  
 1/1m = 3mm  
 1/1m = 1cm  
 (Chp) plano vertical (planos de vista, metálico)  
 1cm unidades auxiliares  
 - est. p. vertical  
 - est. p. vertical  
 - est. p. vertical  
 - est. p. vertical

P C X E

1cm = 1cm

