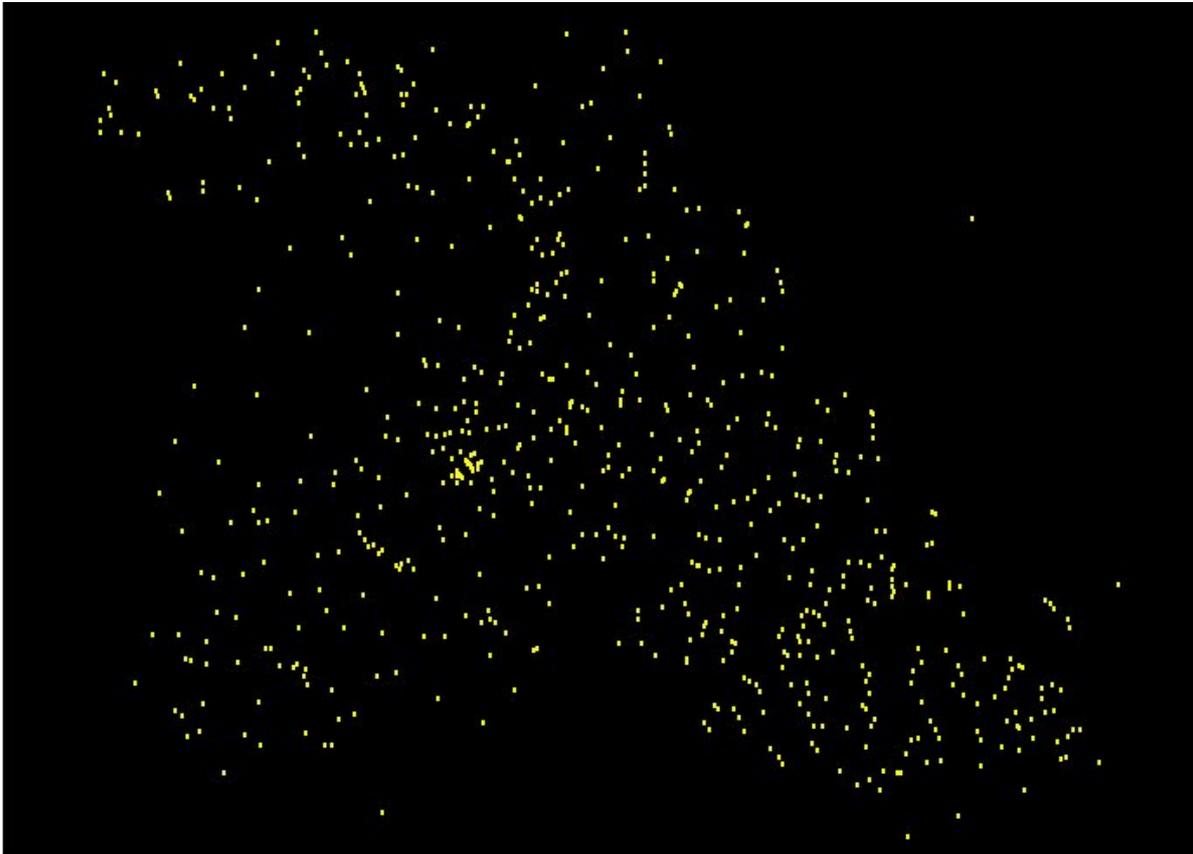
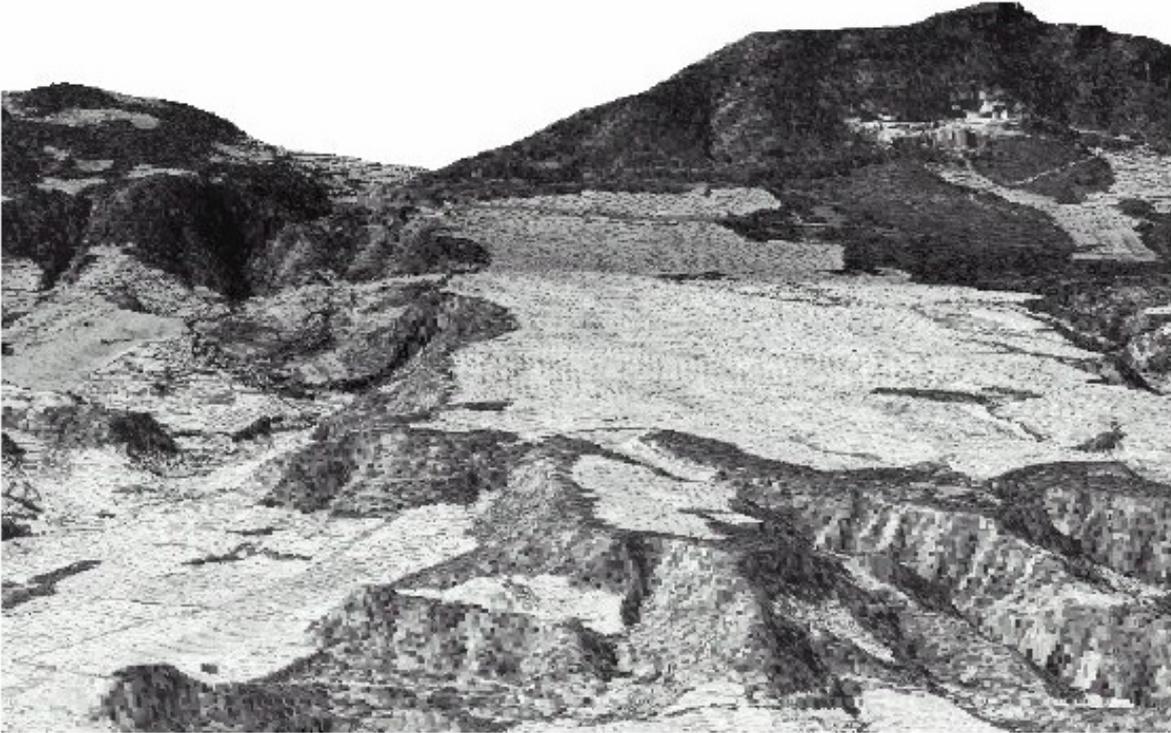
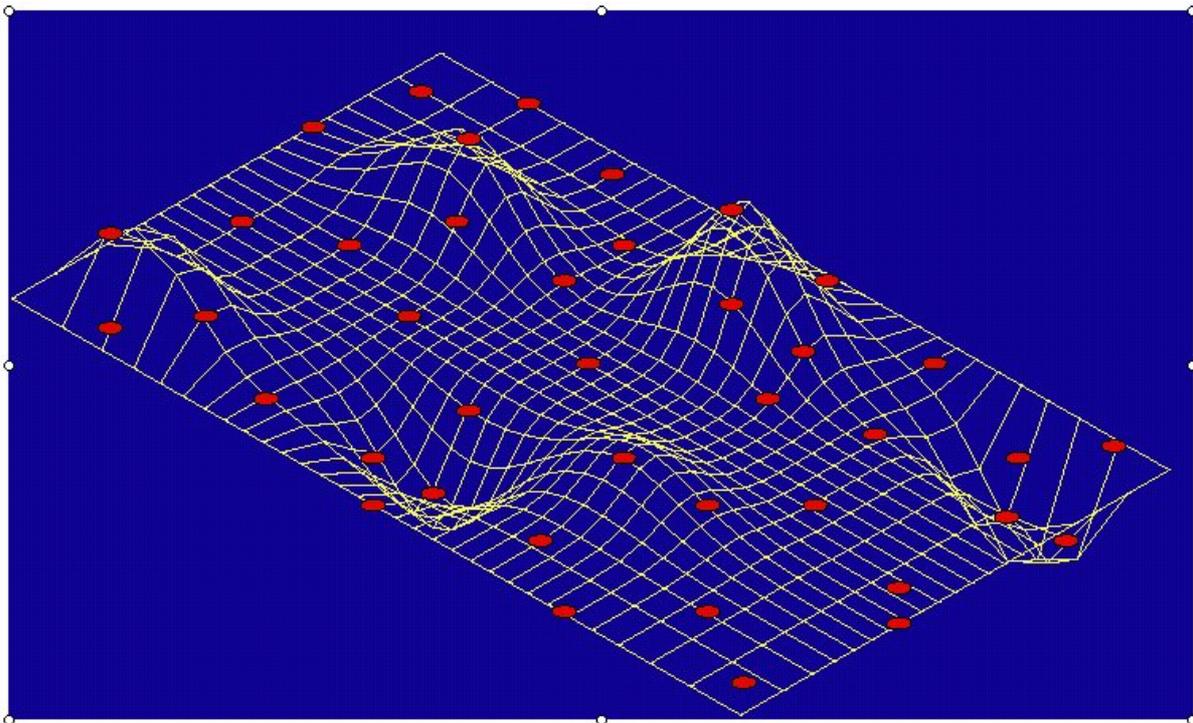
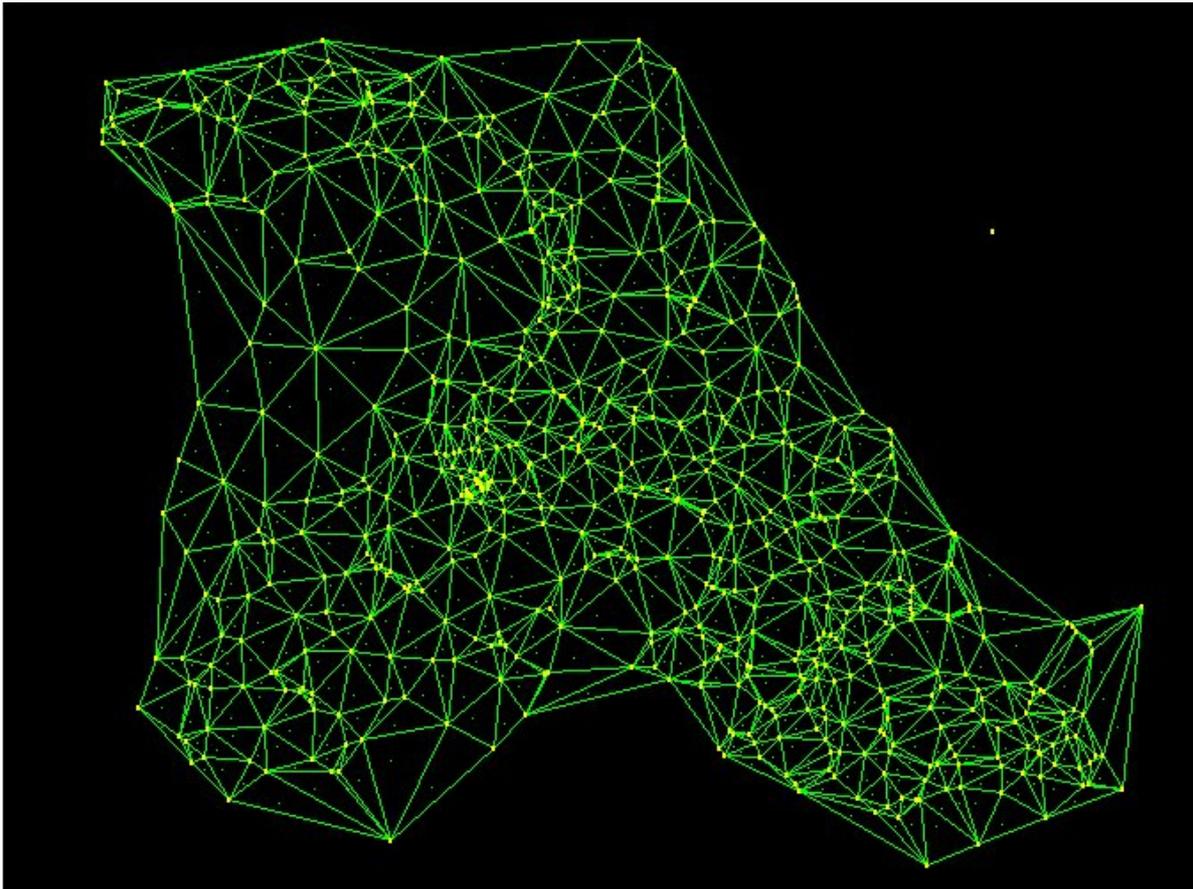
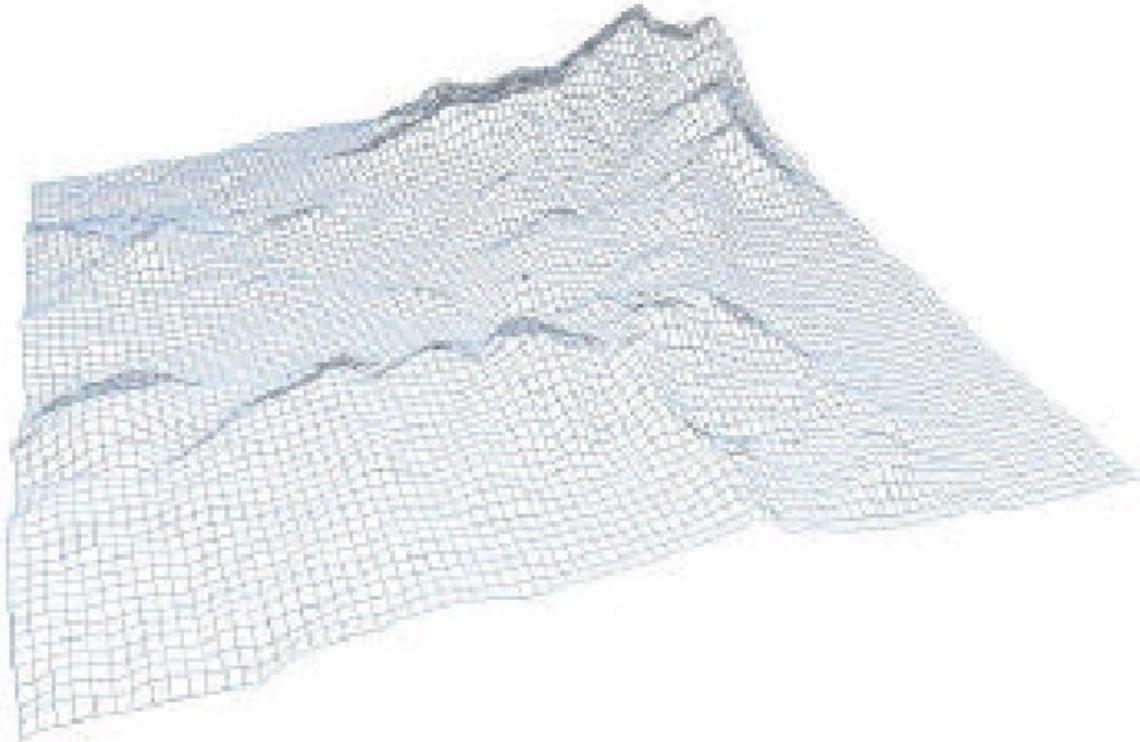
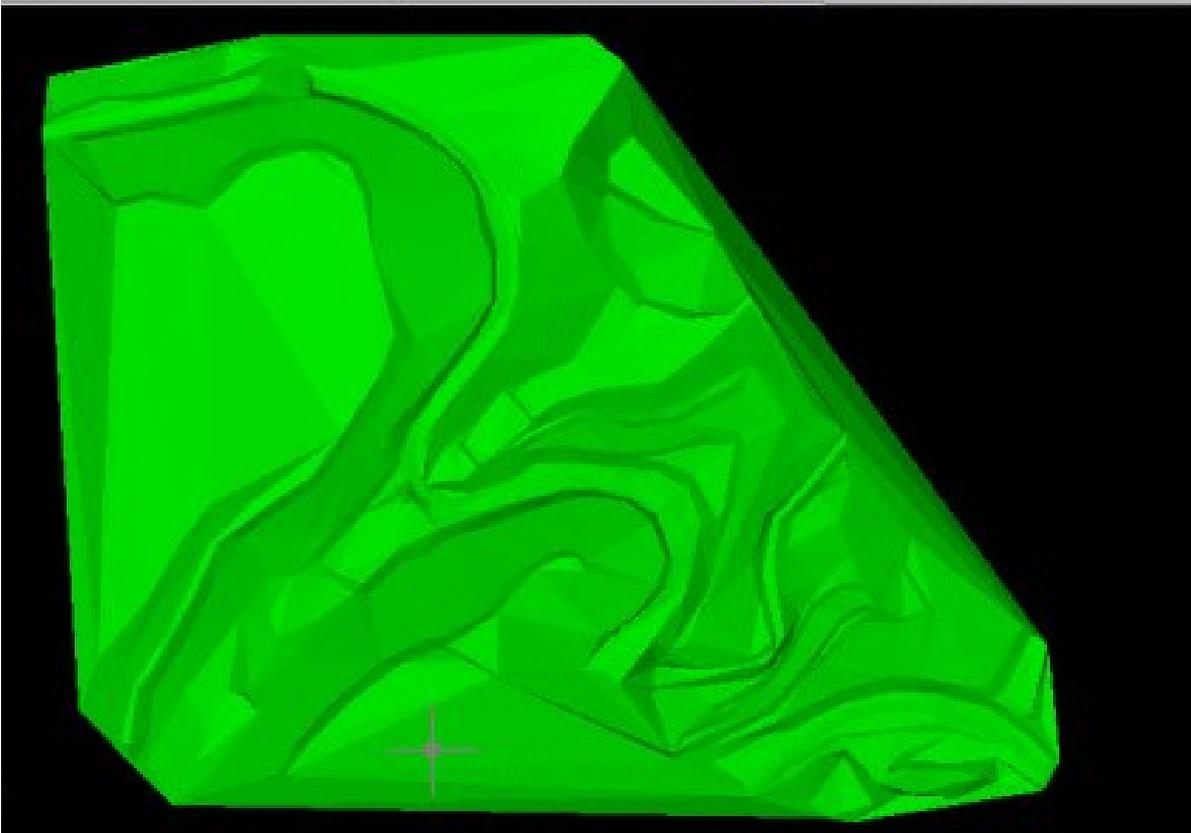




# Planos Acotados







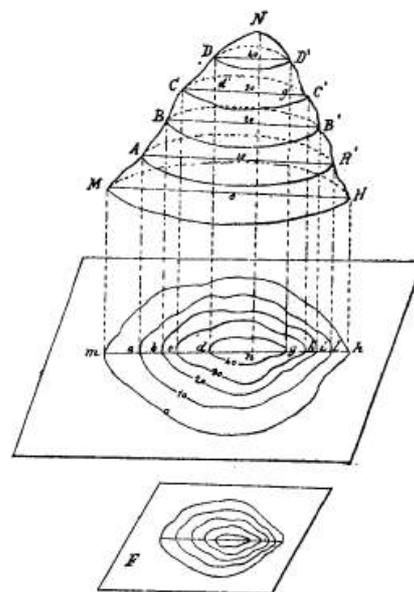
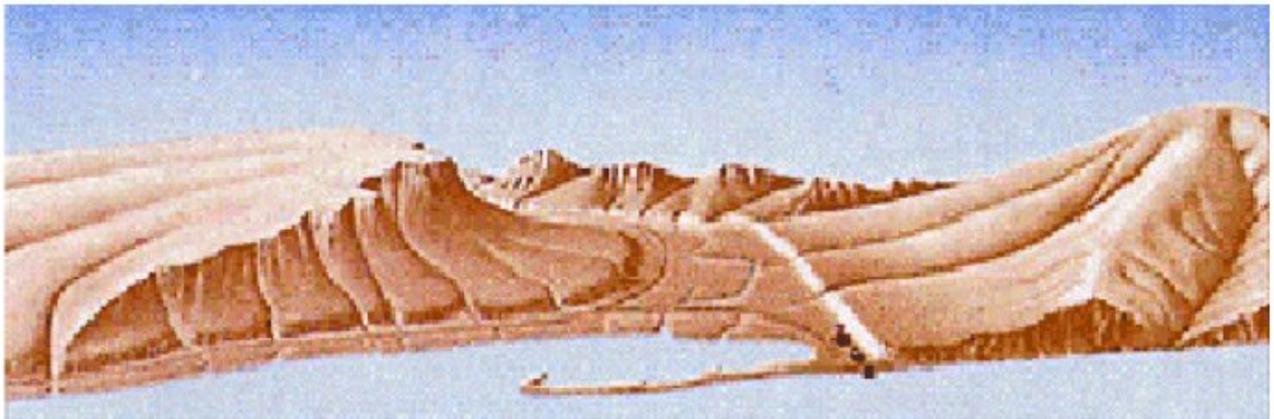
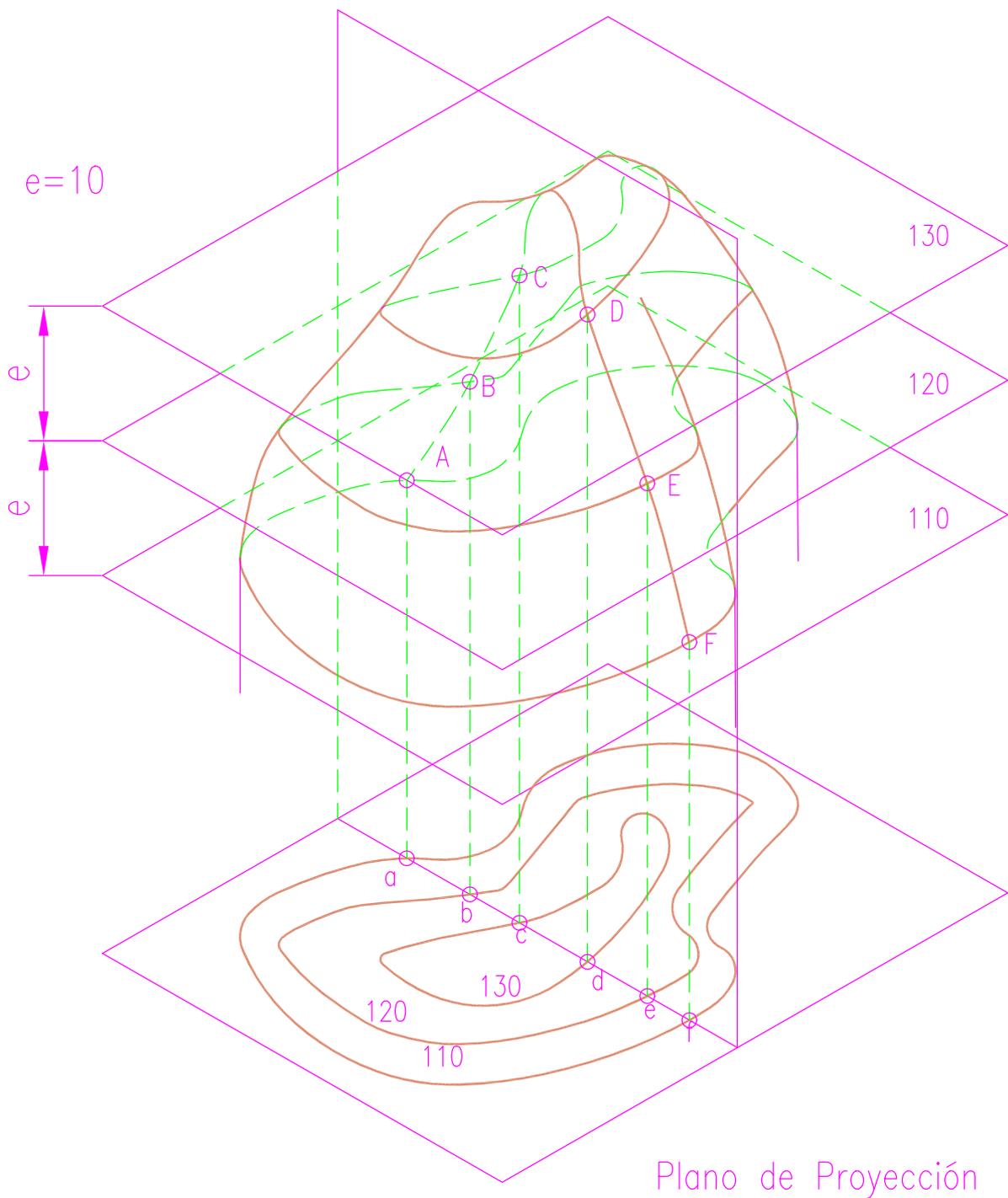


Fig. 1



Plano de Proyección

# Sistema Acotado Trans-1

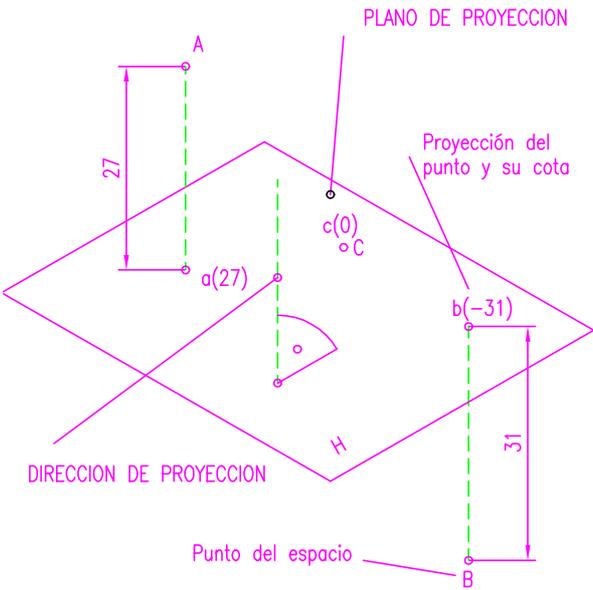


FIGURA 8.1. Elementos del sistema acotado

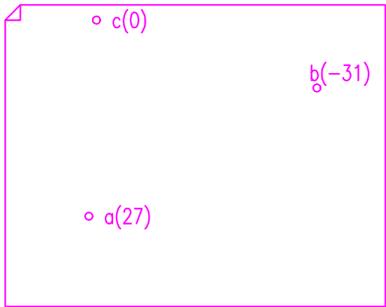


FIGURA 8.2. Representación del punto.

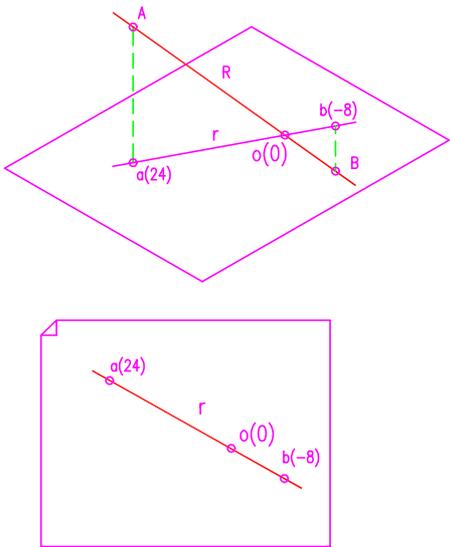


FIGURA 8.3. Representación de la recta.

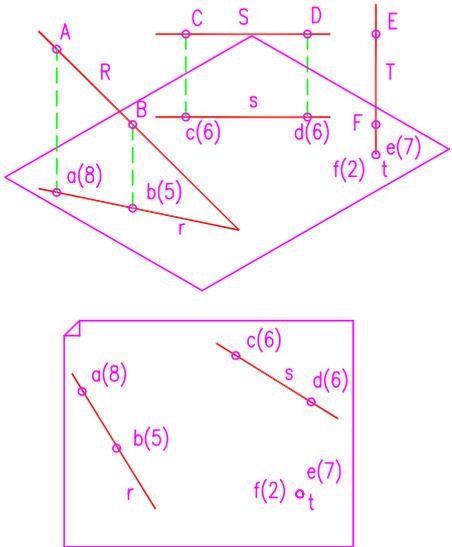


FIGURA 8.4. Posiciones de la recta.

## Sistema Acotado Trans-2

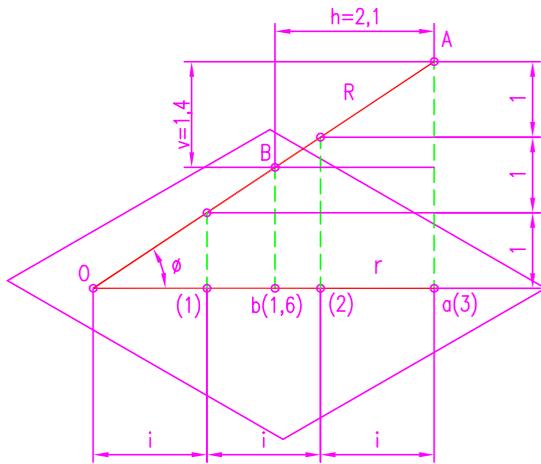


FIGURA 8.5. Pendiente e intervalo de una recta.

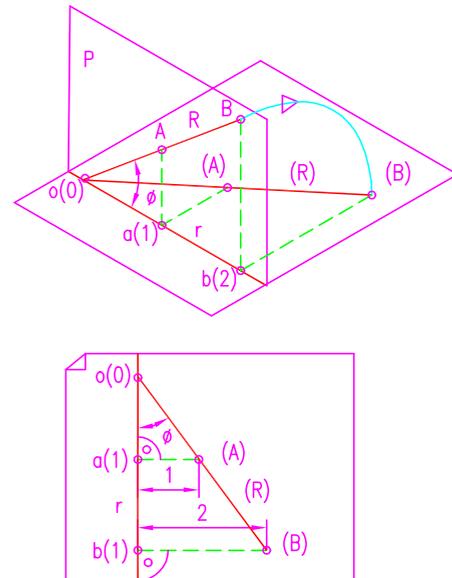


FIGURA 8.6. Abatimiento de la recta.

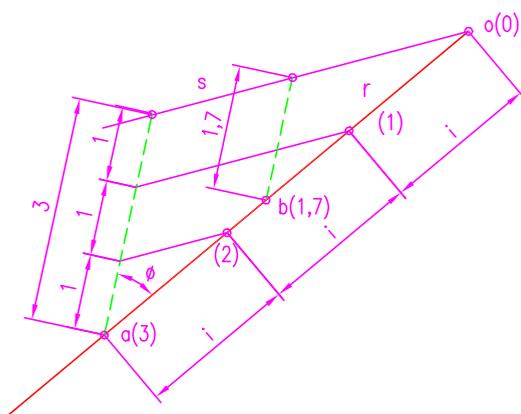


FIGURA 8.7. Graduación de la recta.

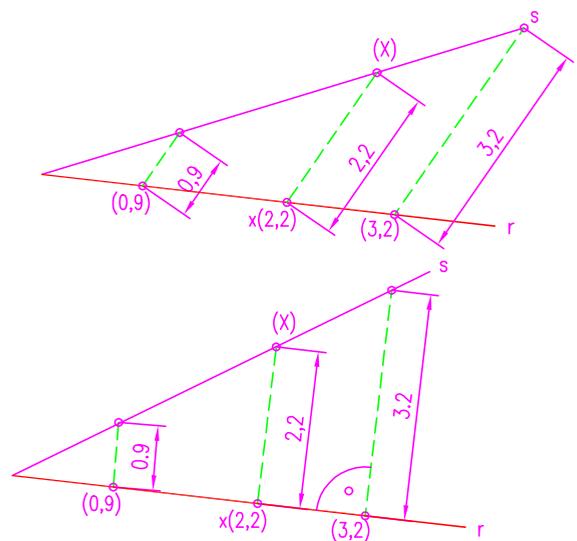


FIGURA 8.8. Cálculo de la cota de un punto.

Sistema Acotado Trans-3

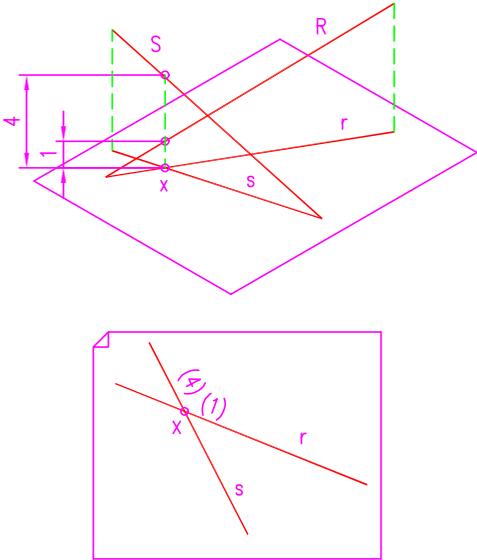


FIGURA 8.9. Rectas que se cruzan.

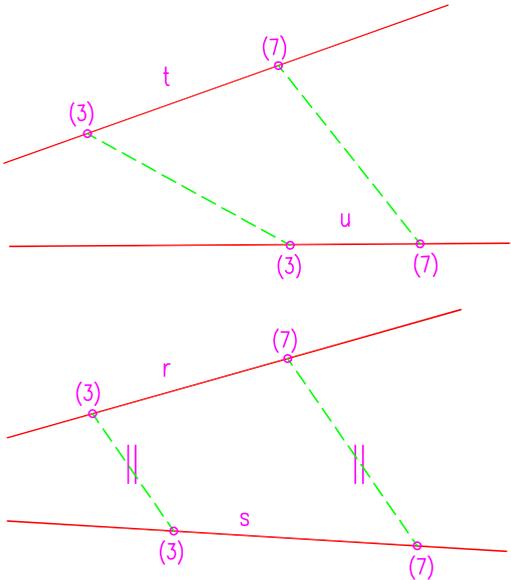


FIGURA 8.10. Corte y cruce de rectas.

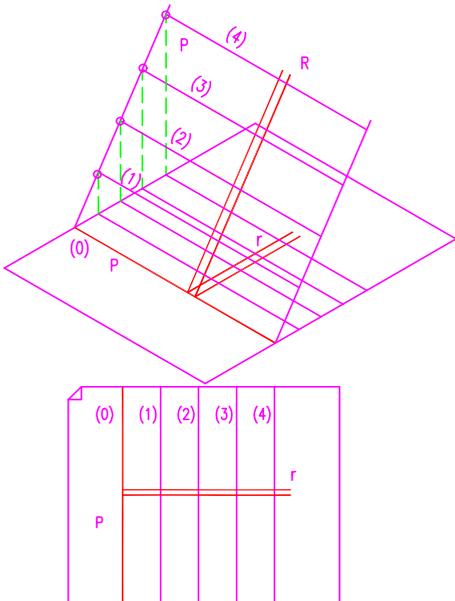


FIGURA 8.11. Representación del plano.

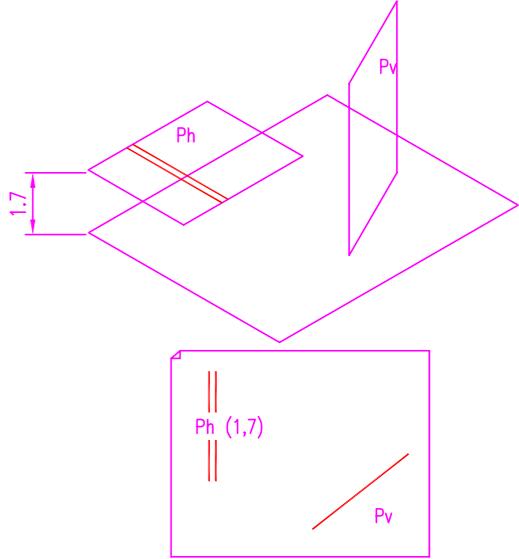


FIGURA 8.12. Posiciones del plano.

# Sistema Acotado Trans-4

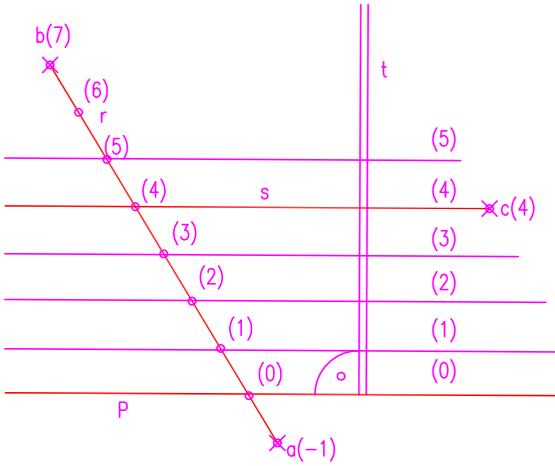


FIGURA 8.13. Determinación de un plano

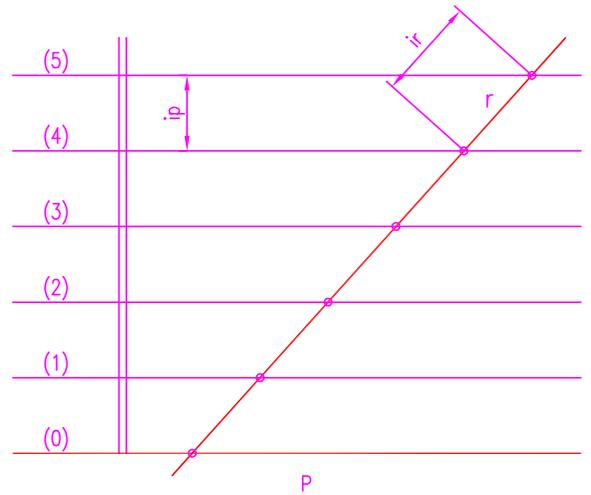


FIGURA 8.14. Intervalo de recta en plano.

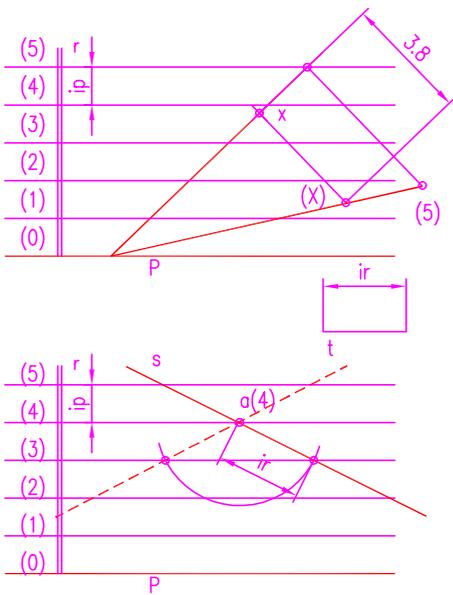


FIGURA 8.15. Cota de un punto y trazar recta en plano.

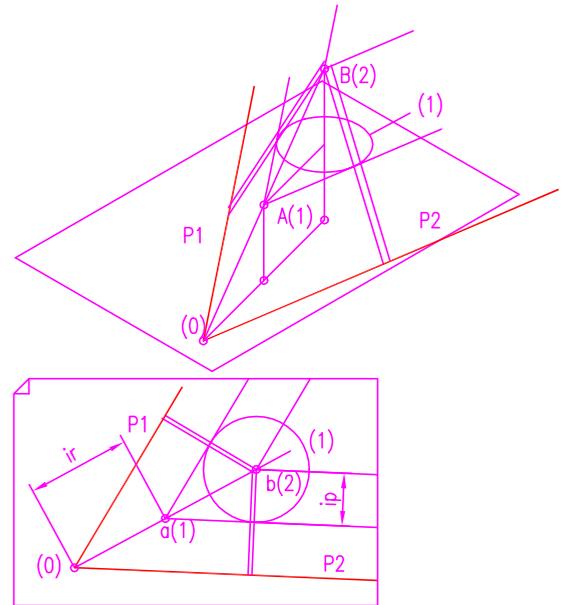


FIGURA 8.16. Trazar un plano de intervalo dado por recta.

# Sistema Acotado Trans-5

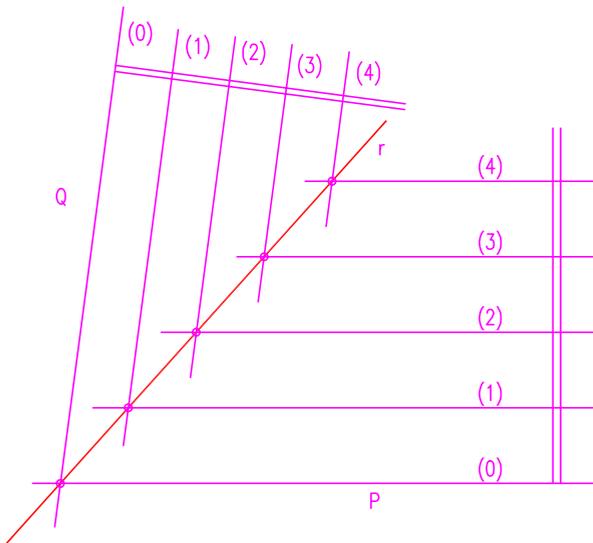


FIGURA 8.17. Intersección de dos planos

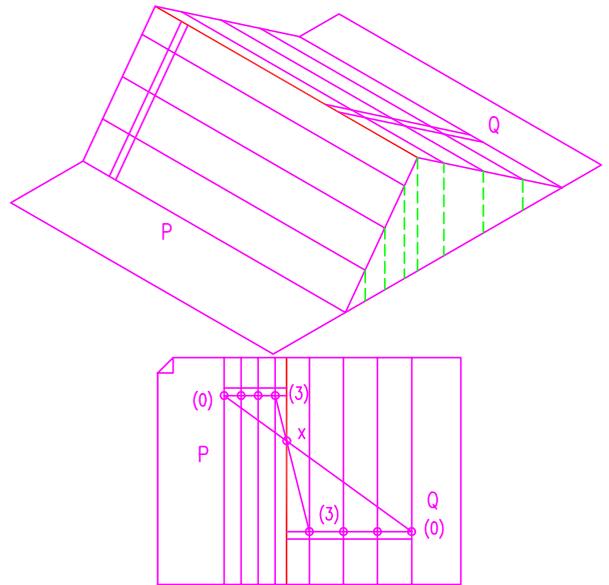


FIGURA 8.18. Intersección de planos de trazas paralelas.

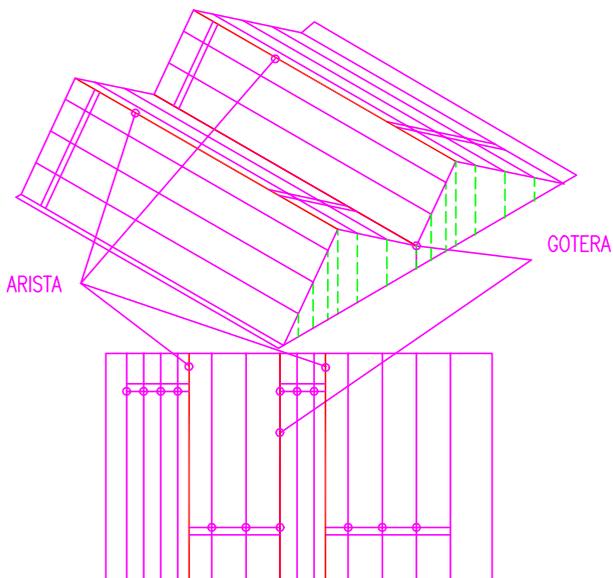


FIGURA 8.19. Intersección en arista y gotera.

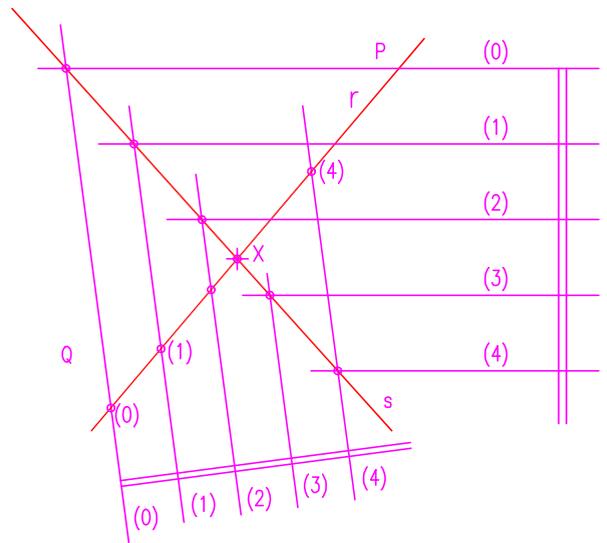


FIGURA 8.20. Intersección entre recta plano.

# Sistema Acotado Trans-6

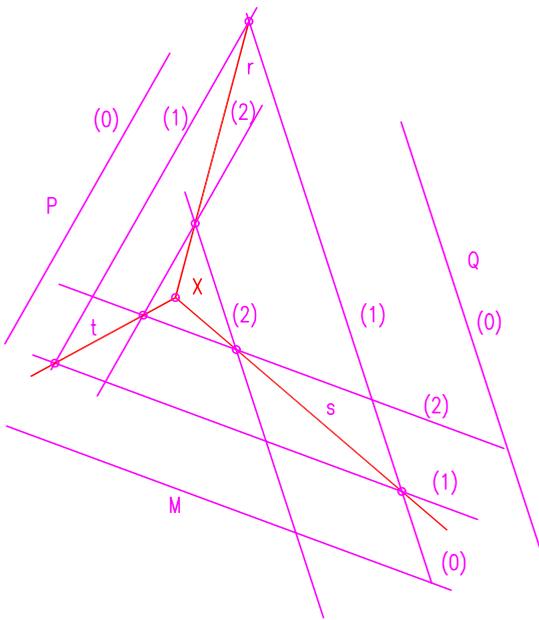


FIGURA 8.21. Intersección de tres planos.

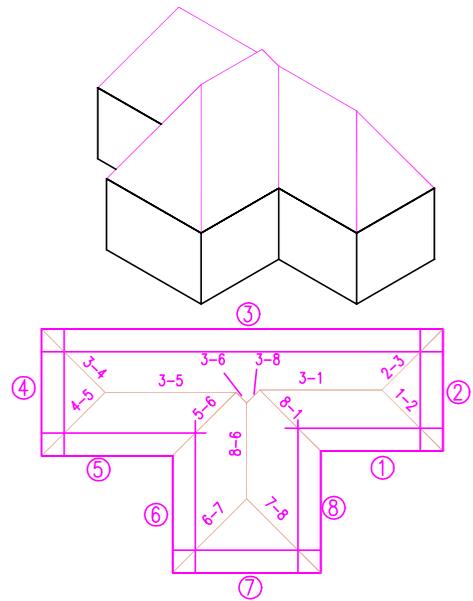


FIGURA 8.22. Cubierta o tejado.

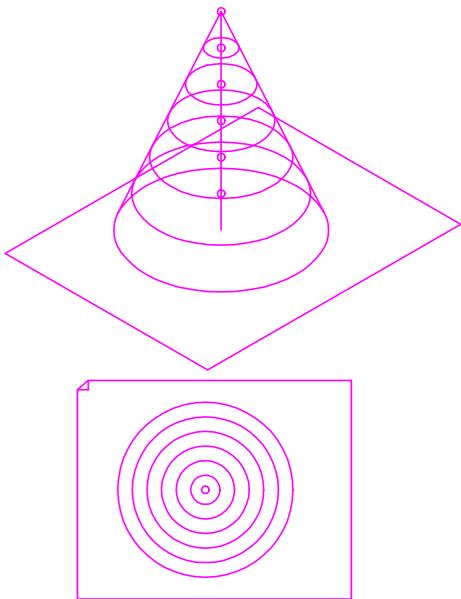


FIGURA 8.23. Superficie cónica.

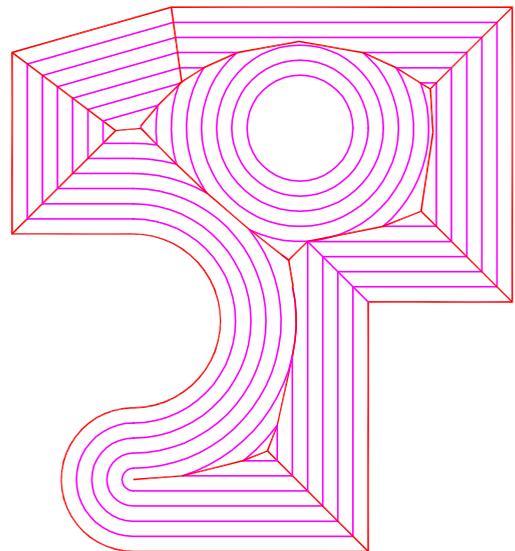


FIGURA 8.24. Cubierta con patio.

# DIBUJO TOPOGRAFICO

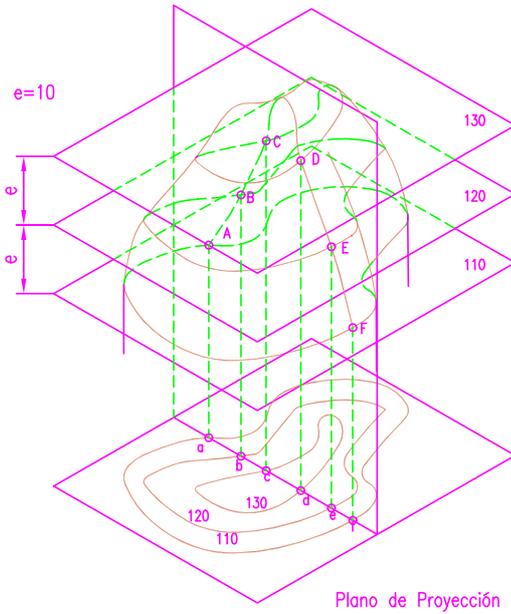


FIGURA 8.25. Curvas de nivel.

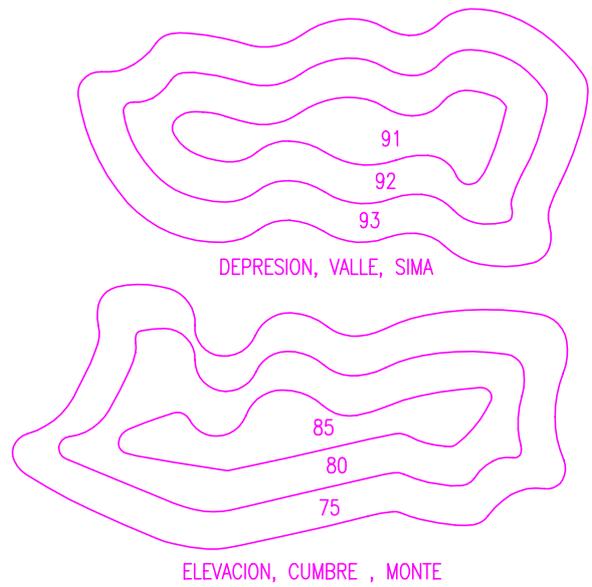


FIGURA 8.26. Depresi?n y elevaci?n.

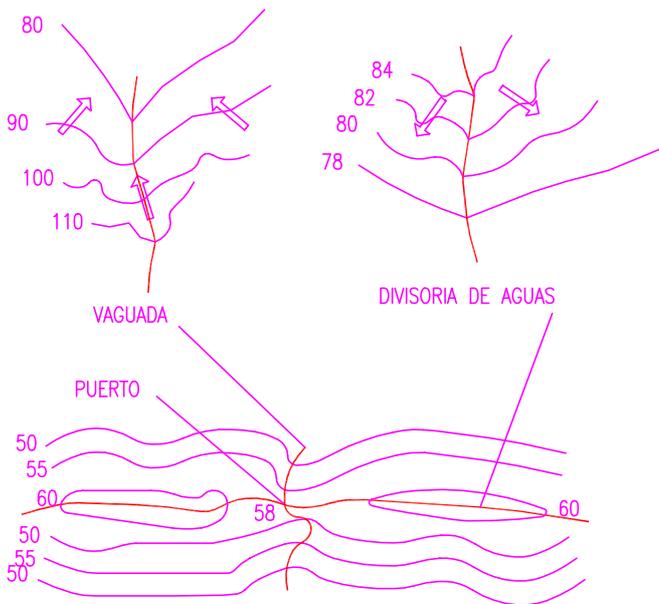


FIGURA 8.27. jDivisoria, vaguada y puerto.

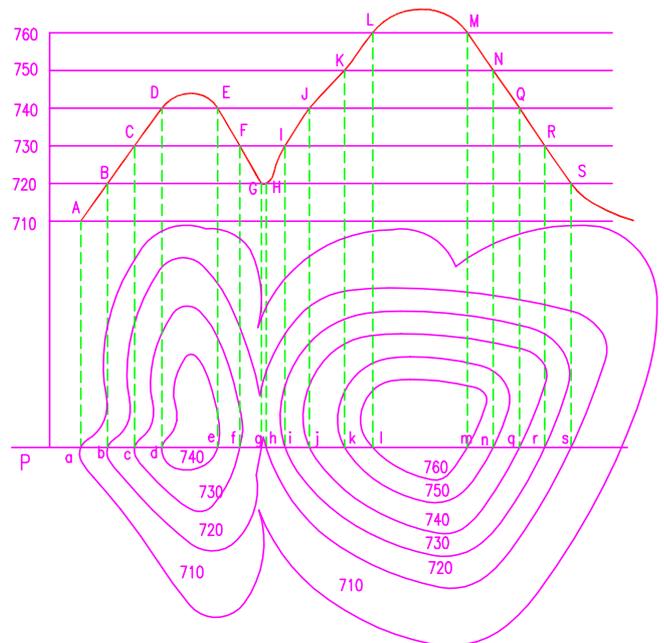


FIGURA 8.28. Obtenci?n de un perfil.

# Sistema Acotado Trans-8

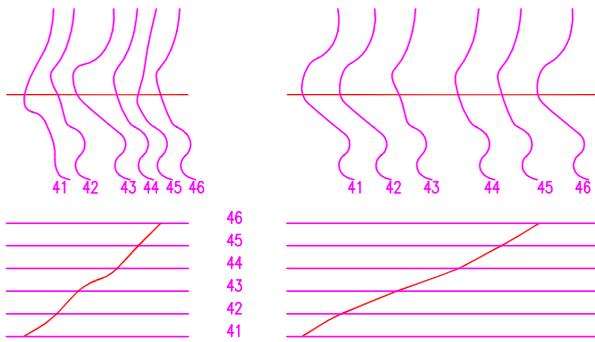


FIGURA 8.29. Perfiles y pendientes.

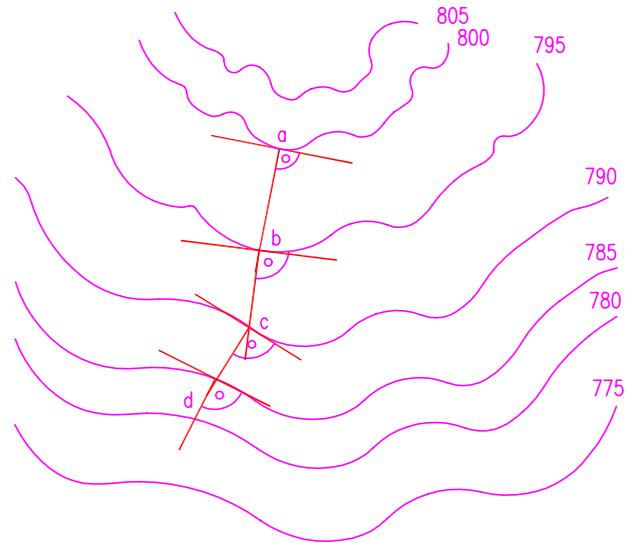


FIGURA 8.30. Línea de máxima pendiente.

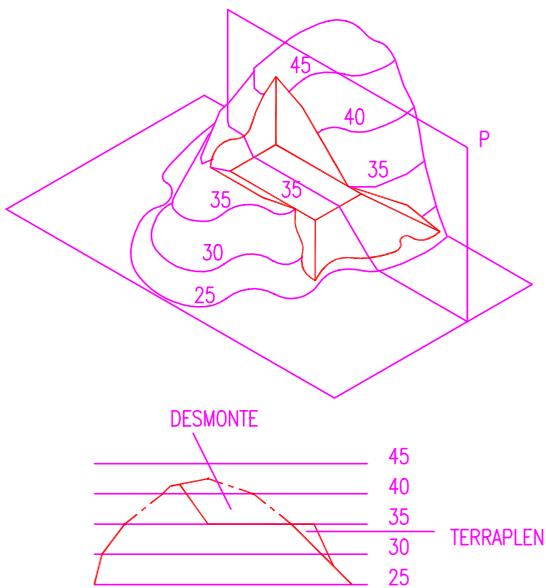


FIGURA 8.31. Movimiento de tierras.

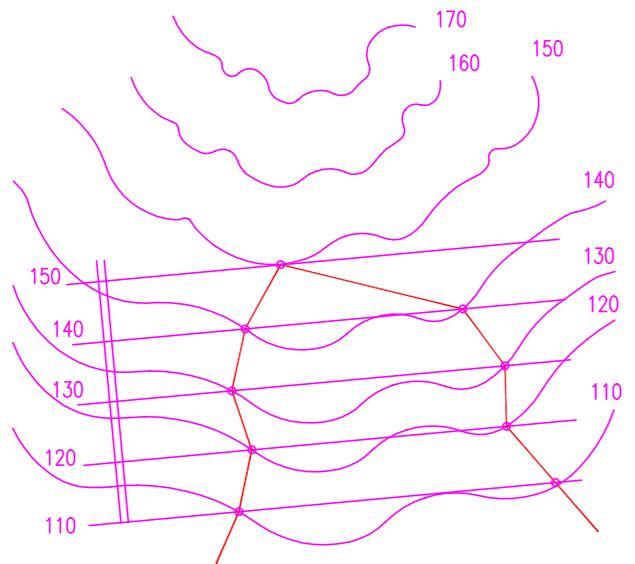


FIGURA 8.32. Intersección de un plano con el terreno.

## Sistema Acotado Trans-9

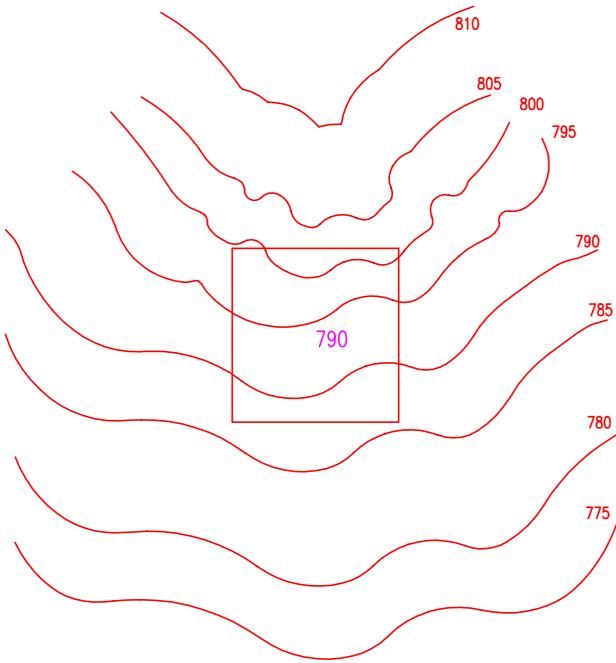


FIGURA 8.33.A. Parcela a explanar en un terreno

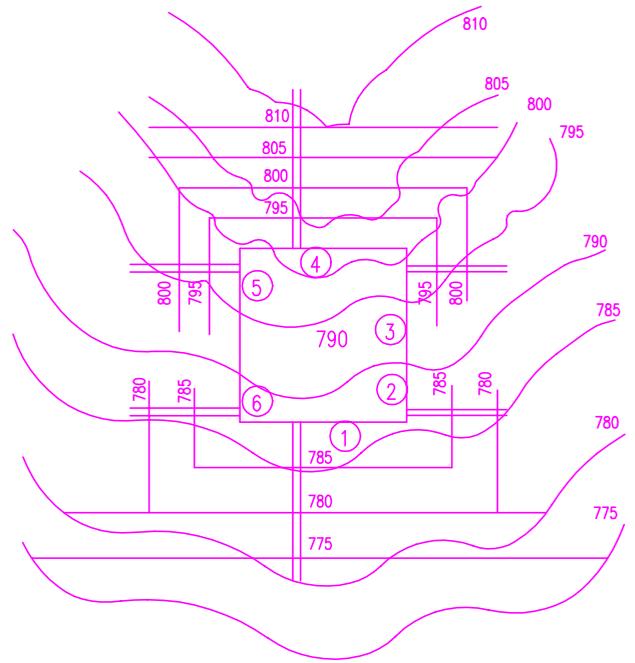


FIGURA 8.33.B. Numeraci3n de taludes y horizontales a equidistancia.

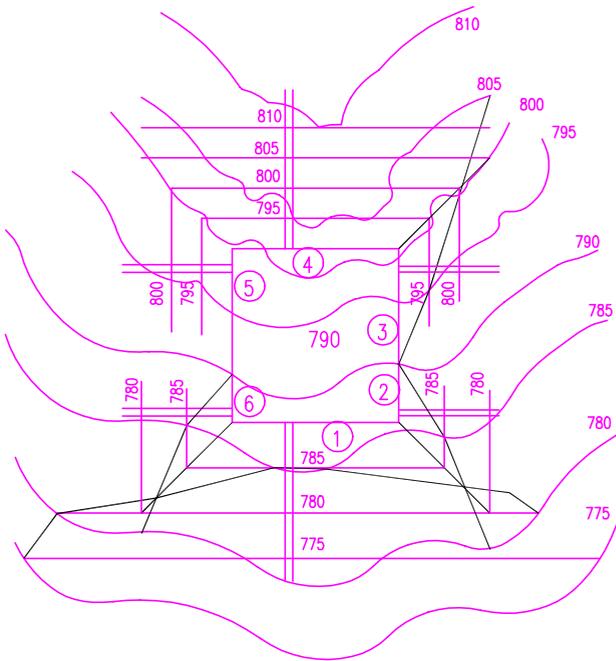


FIGURA 8.33.C. Trazado de intersecciones entre taludes y con el terreno.

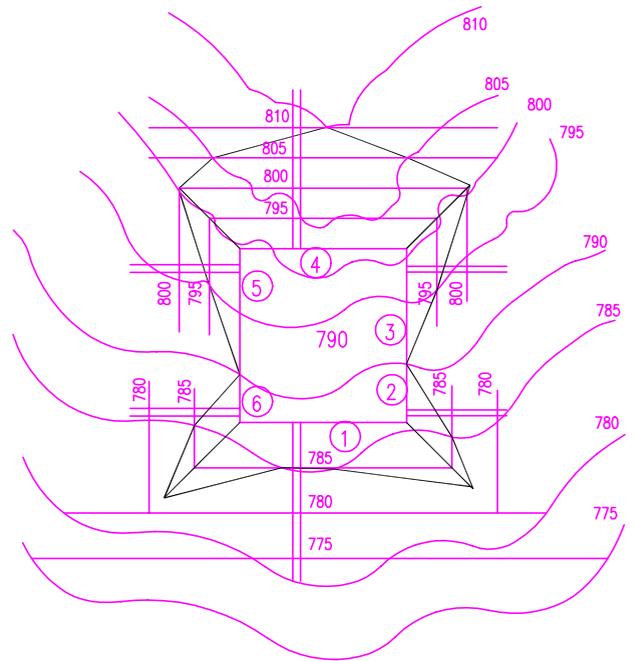
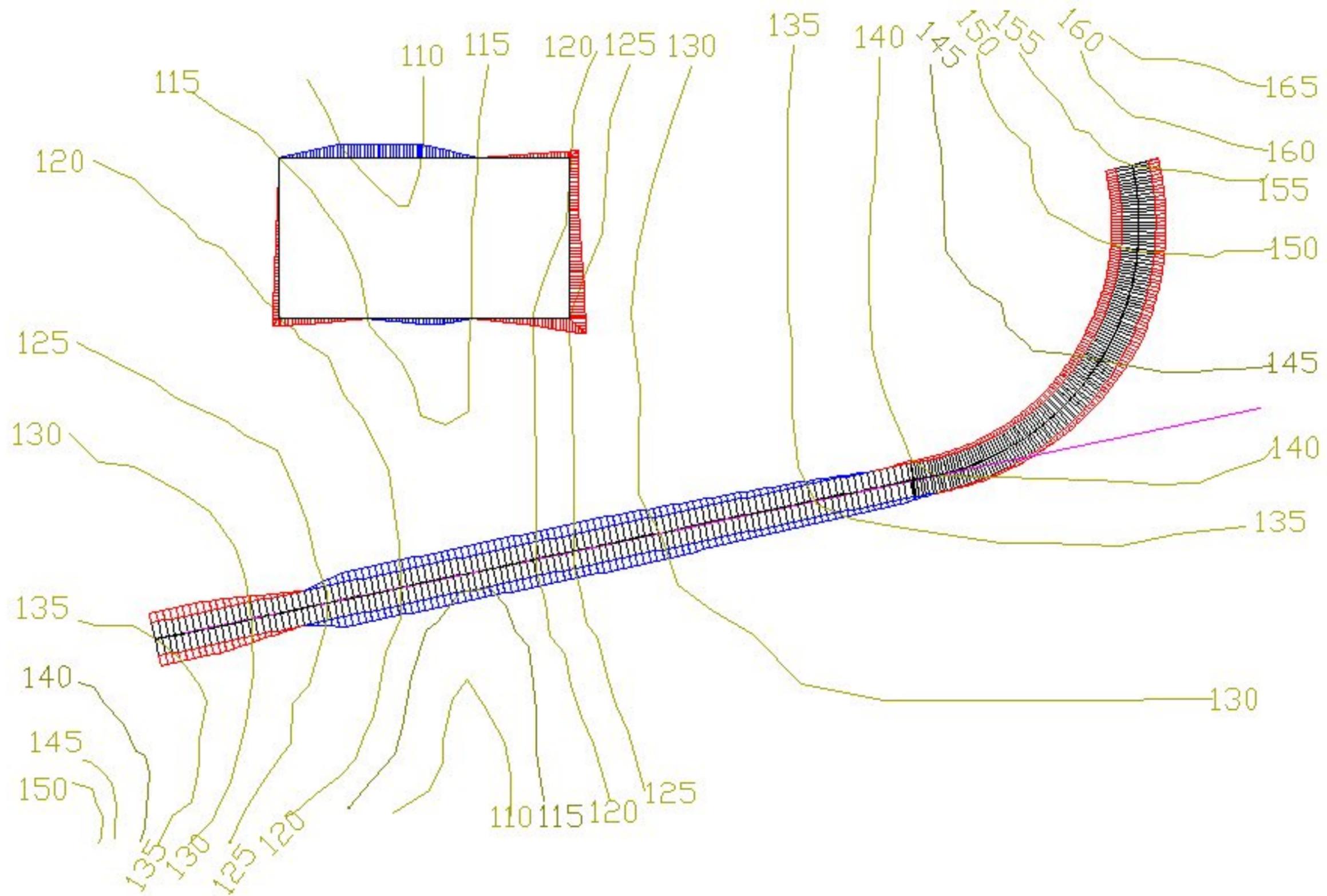
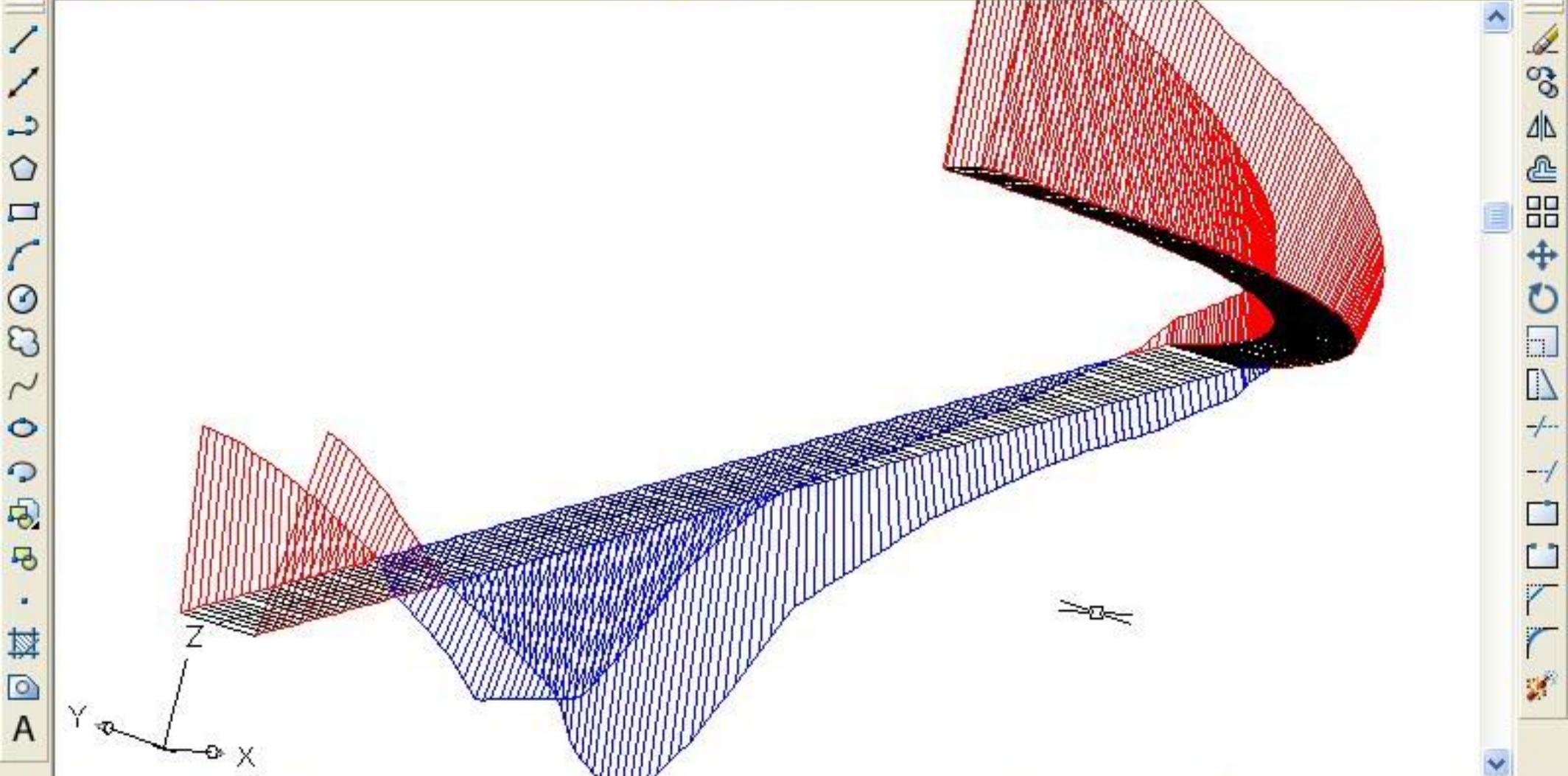


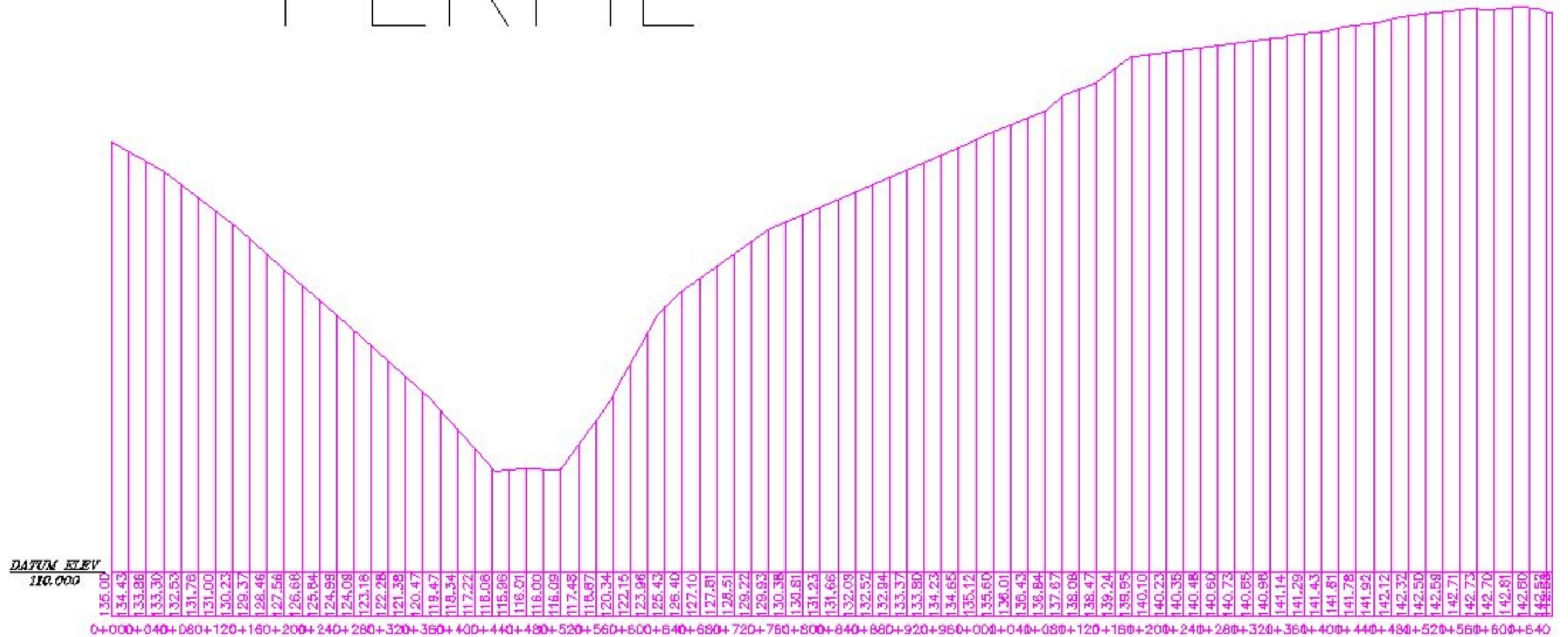
FIGURA 8.33. Explanaci3n completa.

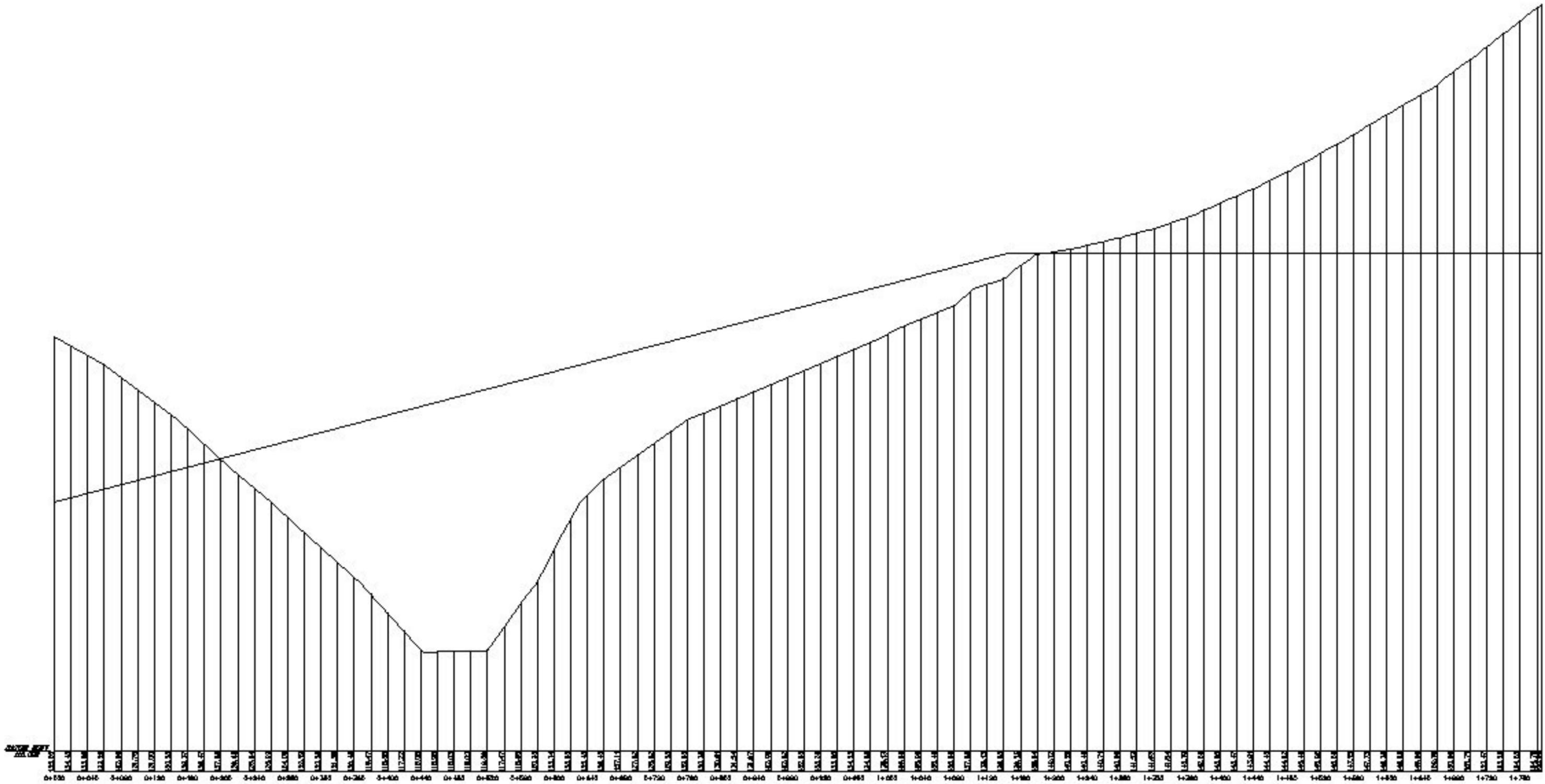
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COTA DE B 140  
COTA DE C 140

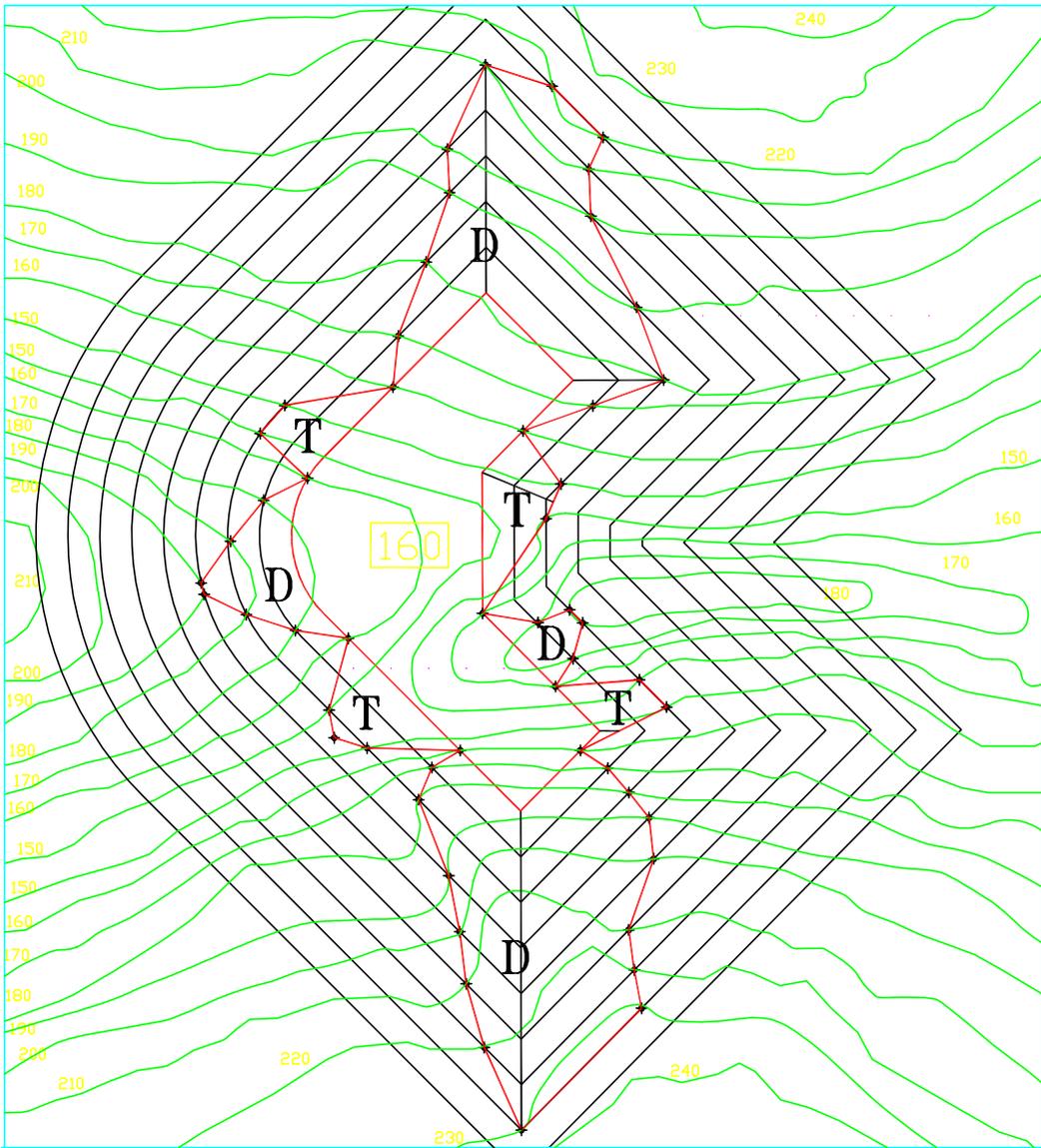




# PERFIL



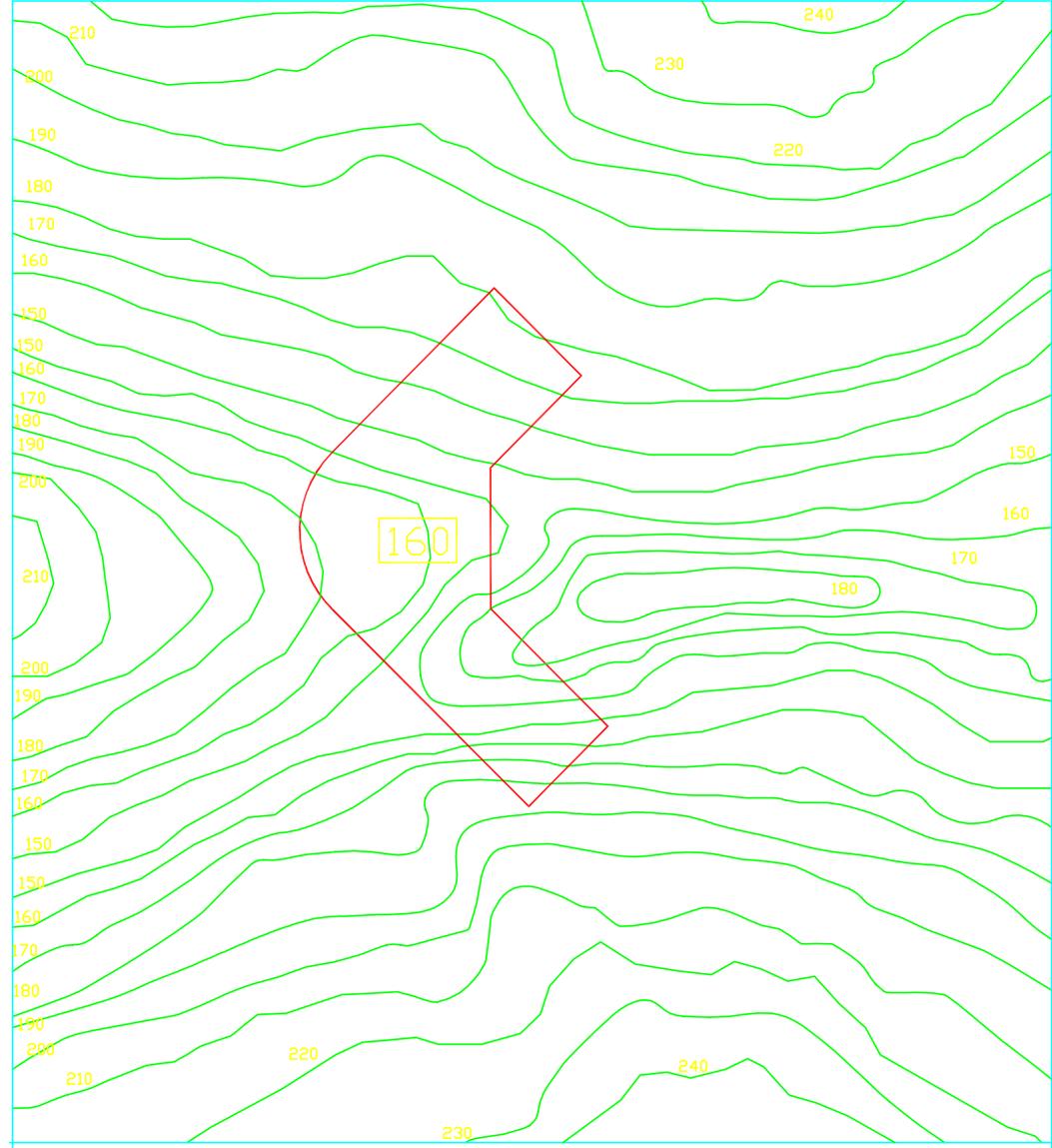




DETERMINAR LOS MOVIMIENTOS DE TIERRAS NECESARIOS PARA SITUAR LA PARCELA A COTA 160, INDICANDO LAS ZONAS DE DESMONTE Y DE TERRAPLEN.

PENDIENTE DE TERRAPLENES: 1/3  
 PENDIENTE DE DESMONTES: 2/3

ESCALA 1:2500  
 COTAS EN metros

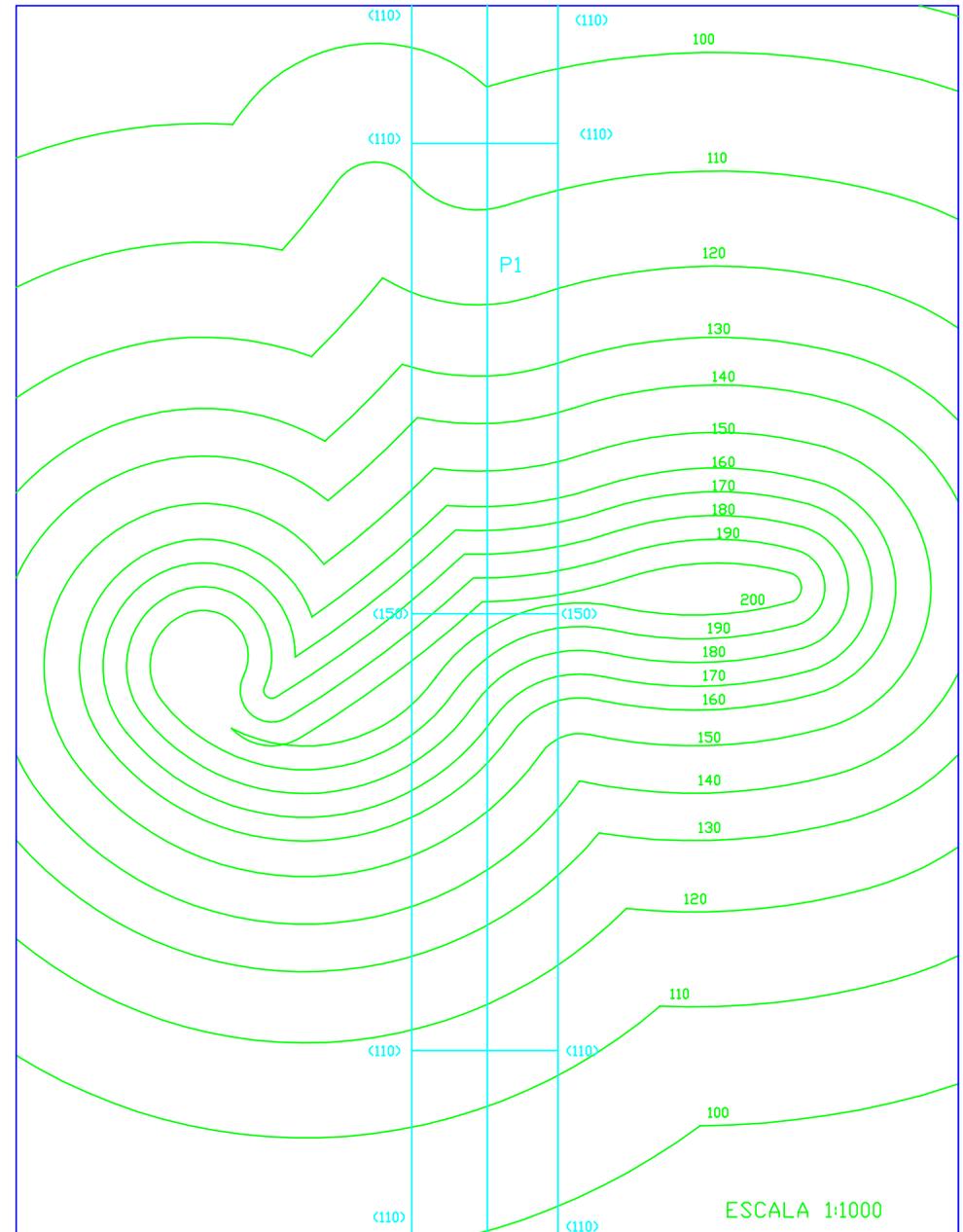
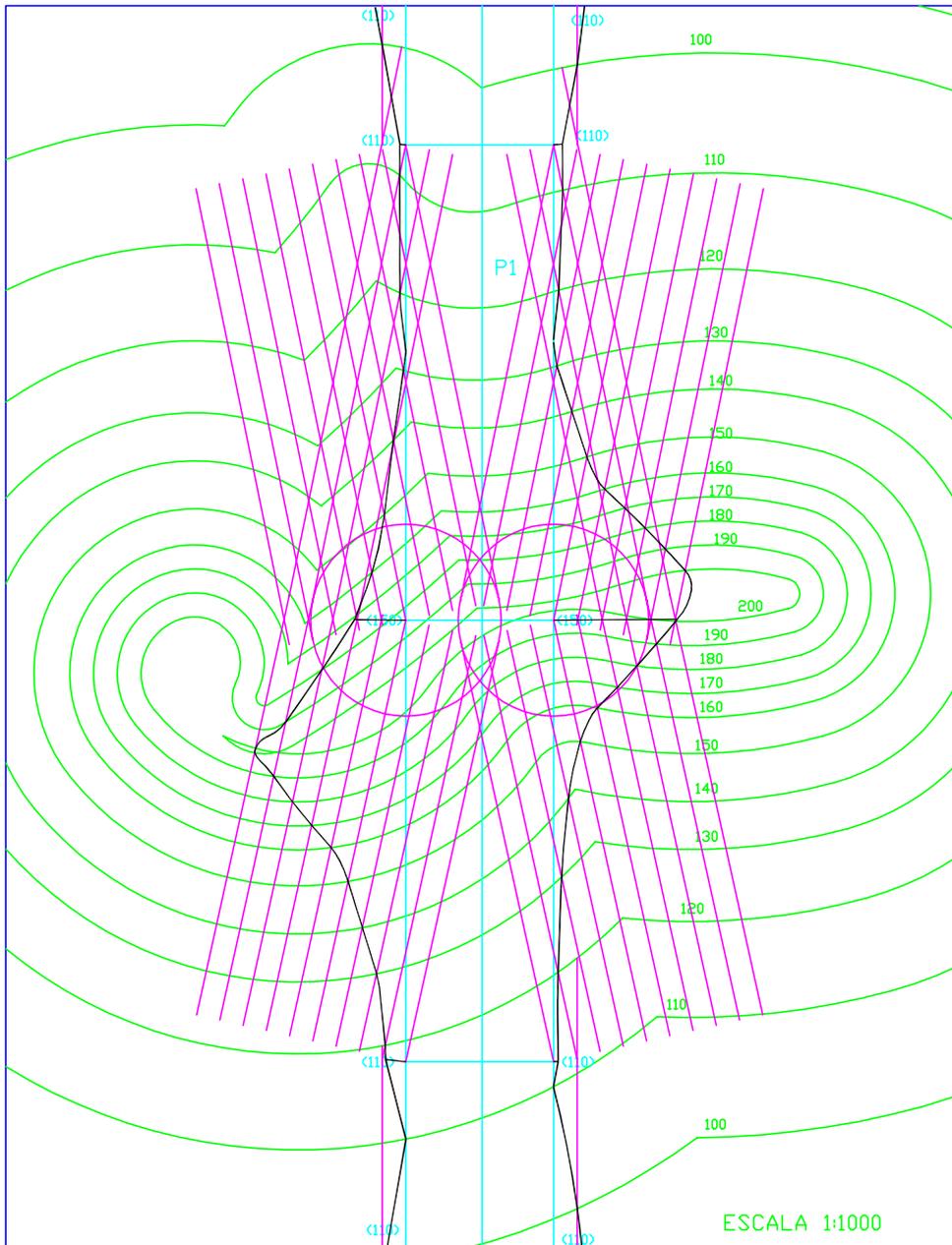


DETERMINAR LOS MOVIMIENTOS DE TIERRAS NECESARIOS PARA SITUAR LA PARCELA A COTA 160, INDICANDO LAS ZONAS DE DESMONTE Y DE TERRAPLEN.

PENDIENTE DE TERRAPLENES: 1/3  
 PENDIENTE DE DESMONTES: 2/3

ESCALA 1:2500  
 COTAS EN metros

FIGURA 8.36. Movimiento de tierras para la explanaci?n de una parcela horizontal



REALIZAR LOS MOVIMIENTOS DE TIERRAS NECESARIOS PARA EL PASO DE LA CARRETERA. LA PENDIENTE DE LOS TALUDES ES 2. LA UNIDAD ES EL METRO LAS CIFRAS ENTRE PARENTESIS SON LAS COTAS DE LOS VERTICES DE LA CARRETERA. HALLAR EL PERFIL QUE PRODUCE EL PLANO P1, PLANO MEDIO DE LA CARRETERA.

REALIZAR LOS MOVIMIENTOS DE TIERRAS NECESARIOS PARA EL PASO DE LA CARRETERA. LA PENDIENTE DE LOS TALUDES ES 2. LA UNIDAD ES EL METRO LAS CIFRAS ENTRE PARENTESIS SON LAS COTAS DE LOS VERTICES DE LA CARRETERA. HALLAR EL PERFIL QUE PRODUCE EL PLANO P1, PLANO MEDIO DE LA CARRETERA.

FIGURA 8.37. Movimiento de tierras para la construcción de una carretera con tramos no horizontales.

