

**Descomposición de un hexaedro en pirámides triangulares por división de las  
obtenidas en las particiones del mismo en pirámides de base cuadrada. Caso general.**

Define hexaedro

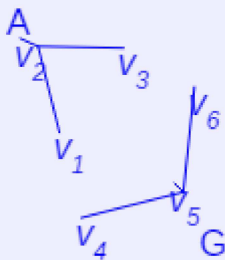
$$A \left( \begin{array}{c} \uparrow \\ \downarrow \end{array} -0.50 \right), \begin{array}{c} \uparrow \\ \downarrow \end{array} -0.50, \begin{array}{c} \uparrow \\ \downarrow \end{array} 0.75 \right) \quad G \left( \begin{array}{c} \uparrow \\ \downarrow \end{array} 0.50 \right), \begin{array}{c} \uparrow \\ \downarrow \end{array} 0.50, \begin{array}{c} \uparrow \\ \downarrow \end{array} -0.75 \right)$$

$$u_1 \left( \begin{array}{c} \uparrow \\ \downarrow \end{array} 0.00 \right), \begin{array}{c} \uparrow \\ \downarrow \end{array} 0.25, \begin{array}{c} \uparrow \\ \downarrow \end{array} -1.00 \right)$$

$$u_2 \left( \begin{array}{c} \uparrow \\ \downarrow \end{array} 1.00 \right), \begin{array}{c} \uparrow \\ \downarrow \end{array} -0.10, \begin{array}{c} \uparrow \\ \downarrow \end{array} 0.00 \right)$$

$$u_3 \left( \begin{array}{c} \uparrow \\ \downarrow \end{array} -0.25 \right), \begin{array}{c} \uparrow \\ \downarrow \end{array} 1.00, \begin{array}{c} \uparrow \\ \downarrow \end{array} 0.00 \right)$$

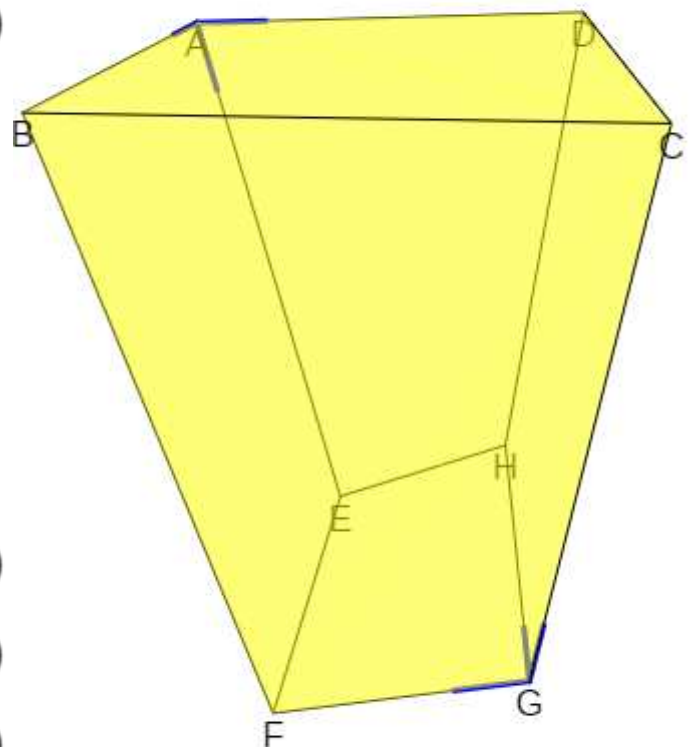
Sentido de las aristas  $v_i = u_i / |u_i|$



$$u_4 \left( \begin{array}{c} \uparrow \\ \downarrow \end{array} 0.00 \right), \begin{array}{c} \uparrow \\ \downarrow \end{array} -1.00, \begin{array}{c} \uparrow \\ \downarrow \end{array} -0.25 \right)$$

$$u_5 \left( \begin{array}{c} \uparrow \\ \downarrow \end{array} -1.00 \right), \begin{array}{c} \uparrow \\ \downarrow \end{array} 0.00, \begin{array}{c} \uparrow \\ \downarrow \end{array} 0.00 \right)$$

$$u_6 \left( \begin{array}{c} \uparrow \\ \downarrow \end{array} 0.05 \right), \begin{array}{c} \uparrow \\ \downarrow \end{array} 0.10, \begin{array}{c} \uparrow \\ \downarrow \end{array} 1.00 \right)$$



Indicaciones

Autor: José R. Galo Sánchez

Proyecto Descartes. Año 2018



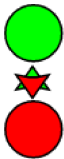
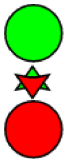
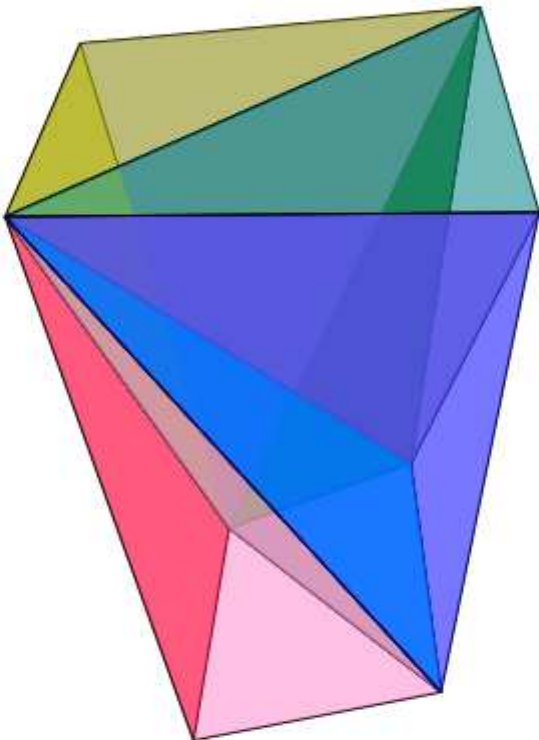
otra partición

Mx0.600

My-0.600

Mz0.750

escala



Desmontar hexaedro

Ver vértices

Ver longitudes

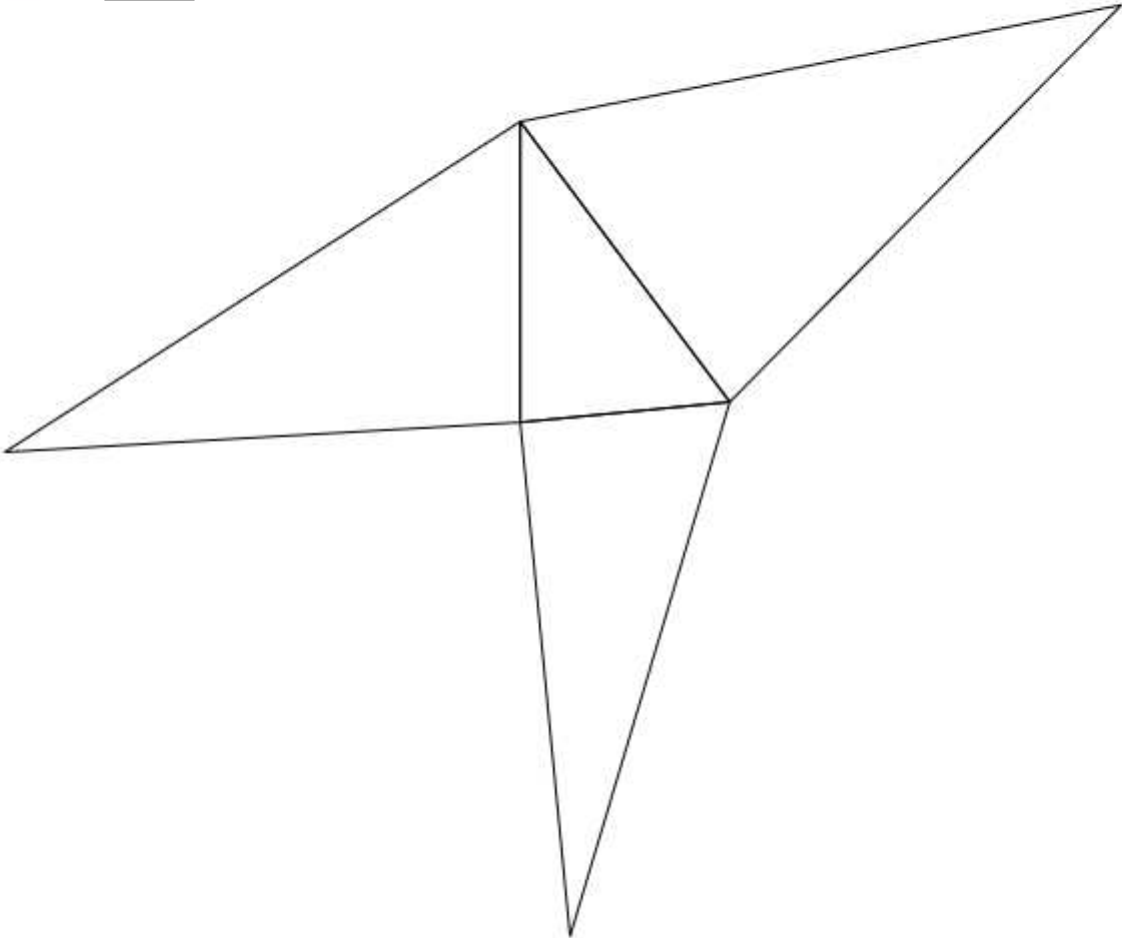
Ocultar detalle corte

Pirámide Ia

Desarrollo plano de la pirámide Ia



Escala 1:150

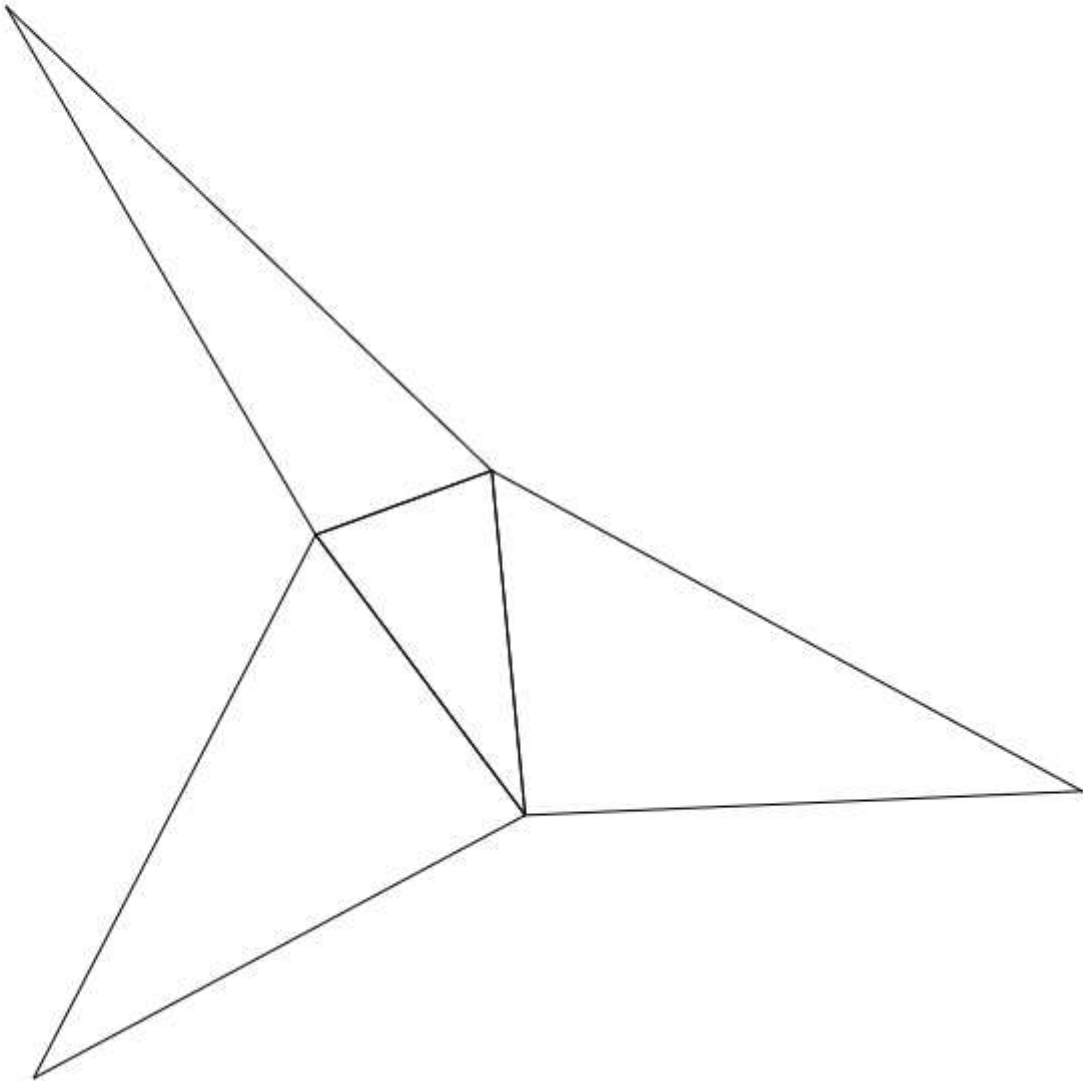


Pirámide Ib

Desarrollo plano de la pirámide Ib



Escala 1:150

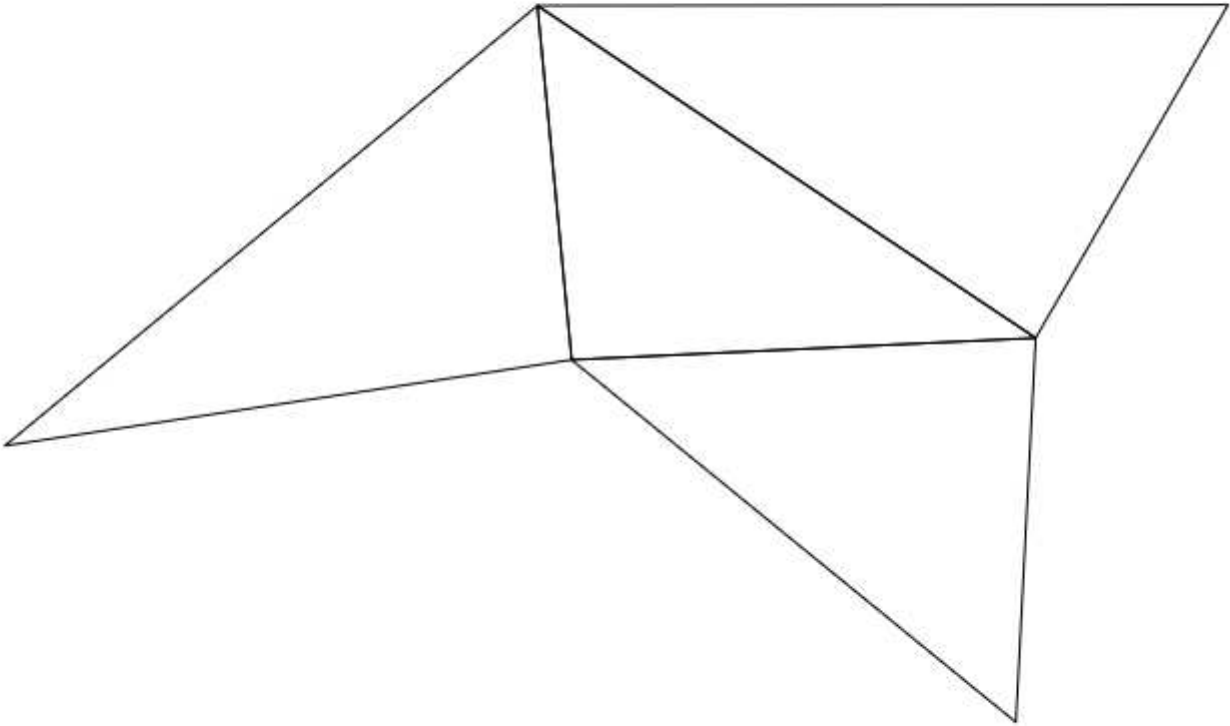


Pirámide IIIa

Desarrollo plano de la pirámide IIIa



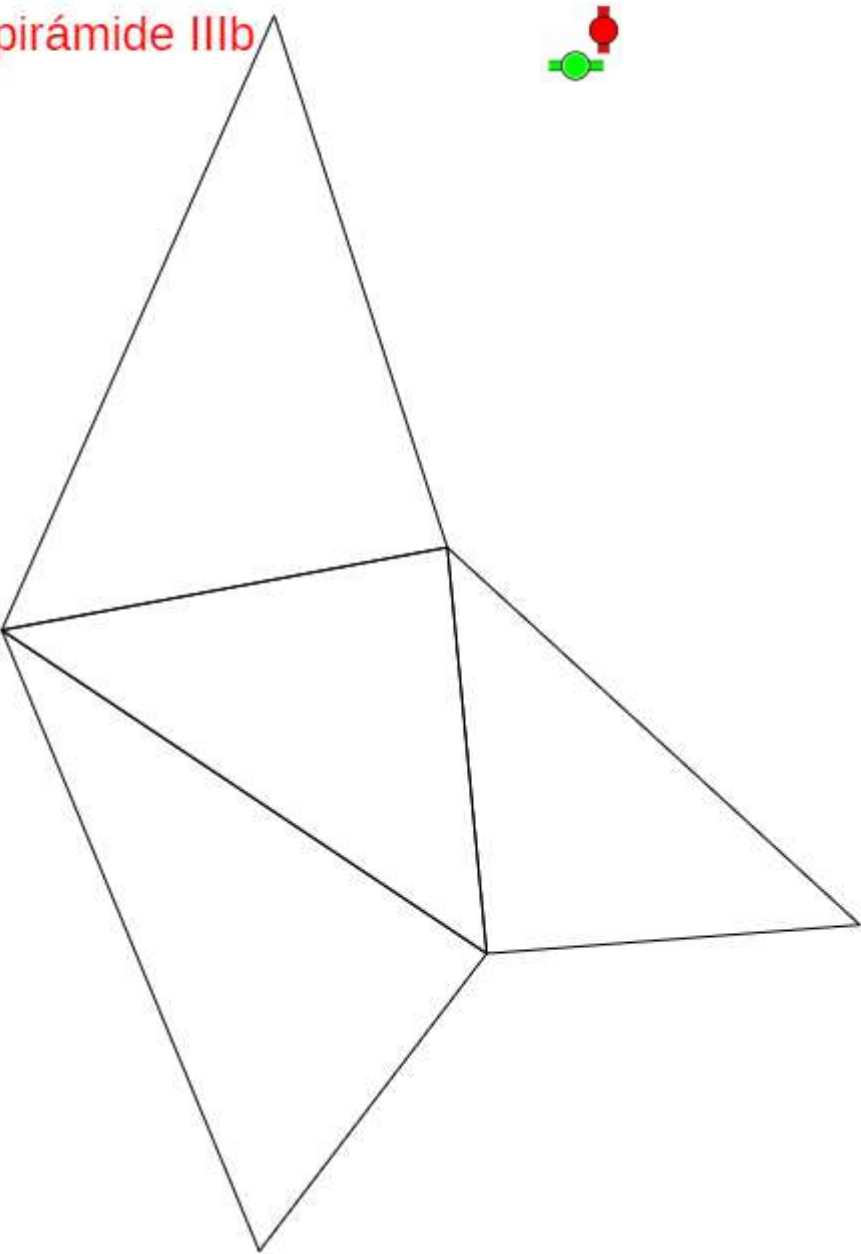
Escala 1:150



Pirámide IIIb

Desarrollo plano de la pirámide IIIb

Escala 1:150

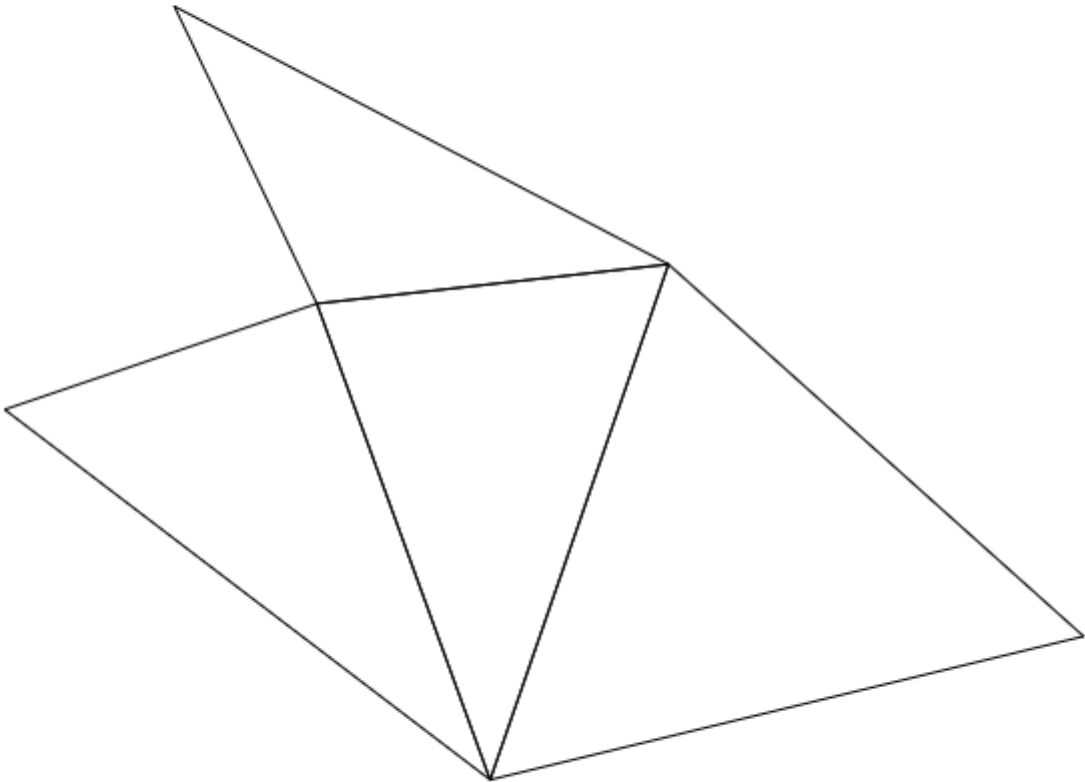


Pirámide Va

Desarrollo plano de la pirámide Va



Escala 1:150



Pirámide Vb

Desarrollo plano de la pirámide Vb



Escala 1:150

