

### Descomposición de un Hexaedro convexo de caras cuadriláteras en pirámides de base cuadrilátera

Define el hexaedro

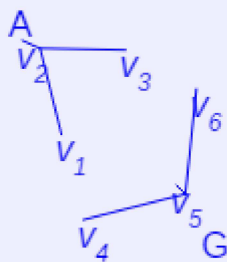
$$A \left( \begin{array}{c} \uparrow \\ \downarrow \end{array} -0.50 \right), \begin{array}{c} \uparrow \\ \downarrow \end{array} -0.50, \begin{array}{c} \uparrow \\ \downarrow \end{array} 0.75 \right) \quad G \left( \begin{array}{c} \uparrow \\ \downarrow \end{array} 0.50 \right), \begin{array}{c} \uparrow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

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

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

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

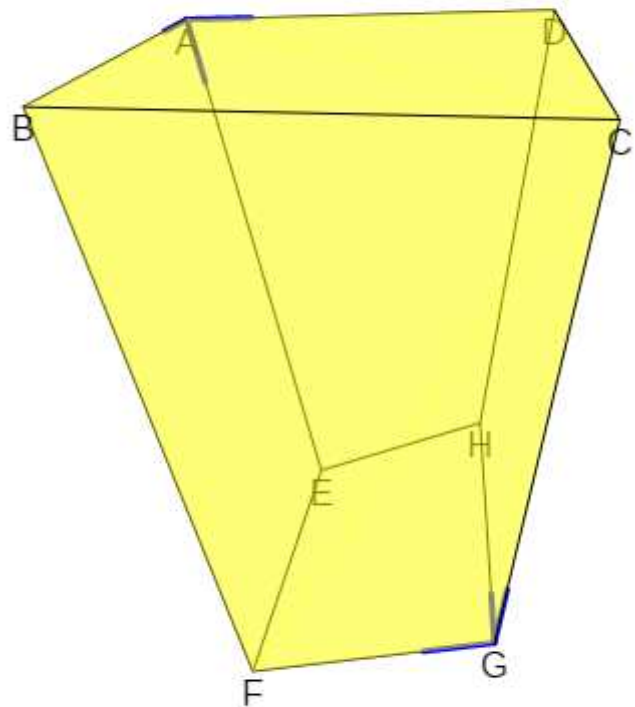
Sentido de las aristas  $v_i = u_i / |u_i|$



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

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

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



Indicaciones

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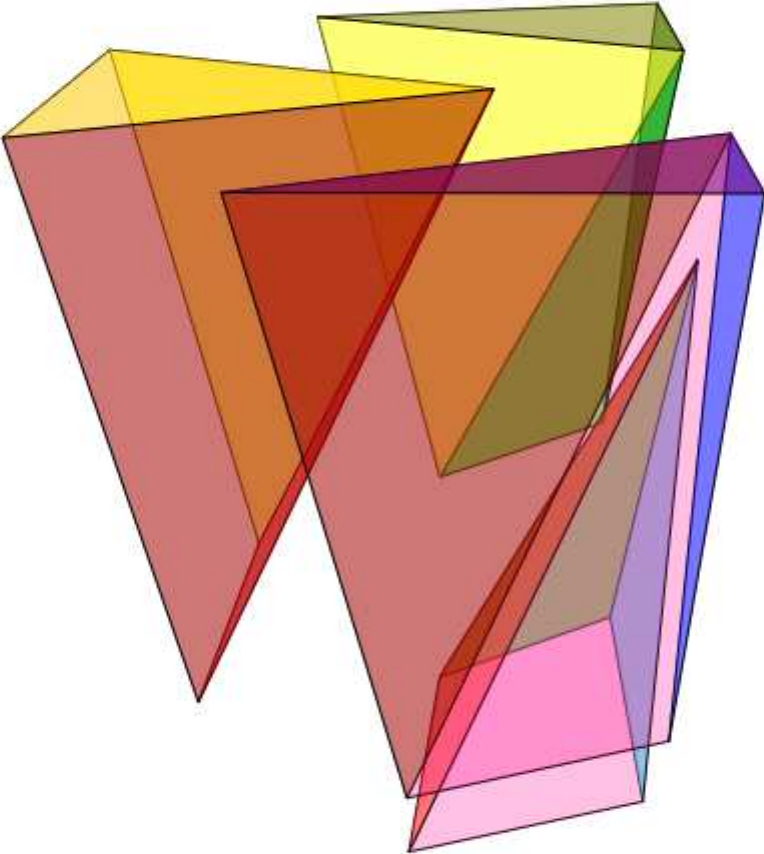
Proyecto Descartes. Año 2018

Mx0.000

My0.650

Mz0.750

escala



Desmontar hexaedro

Ver vértices

Ver longitudes

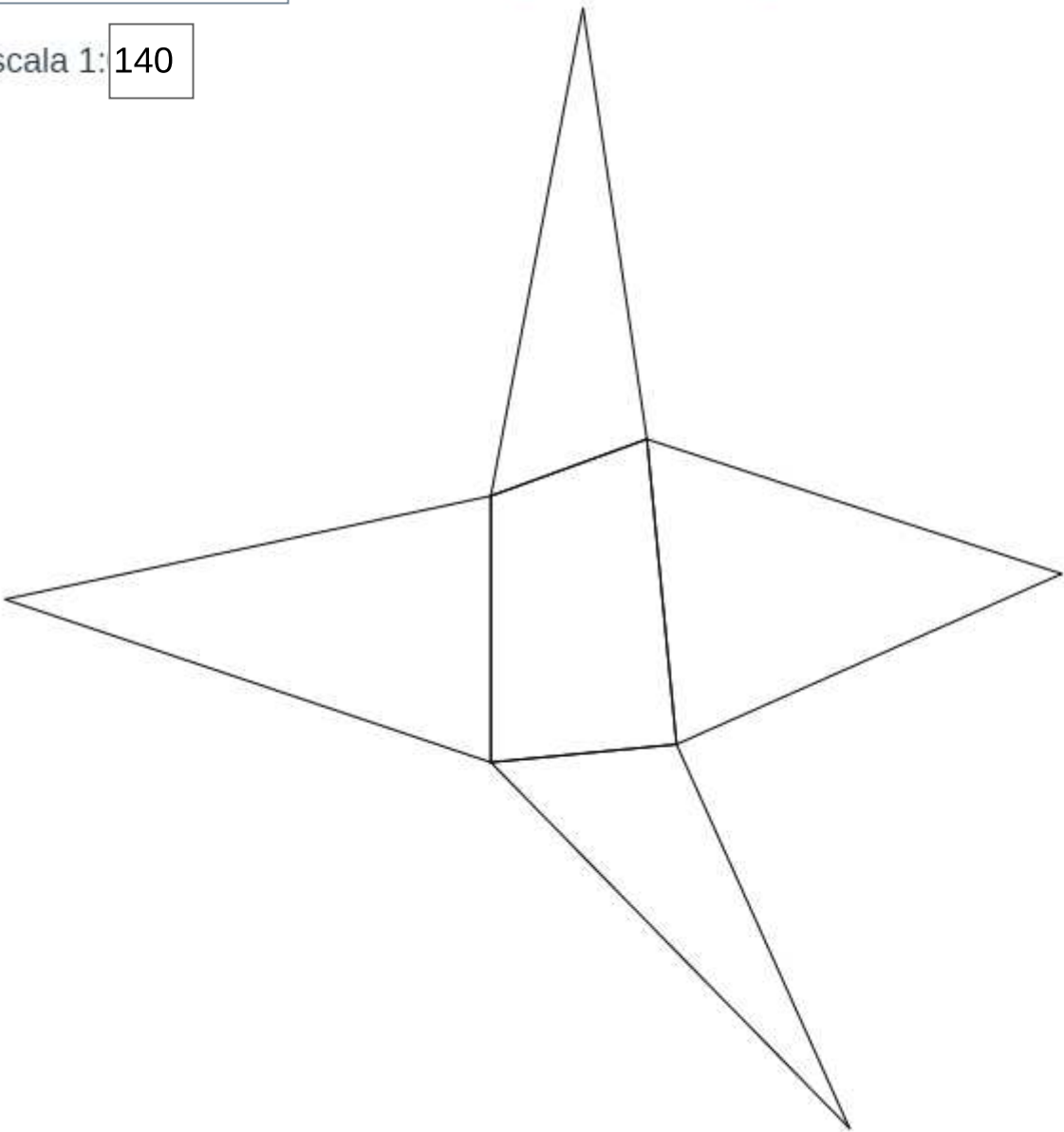
Ocultar detalle corte

Pirámide I

Desarrollo plano de la pirámide I



Escala 1: 140

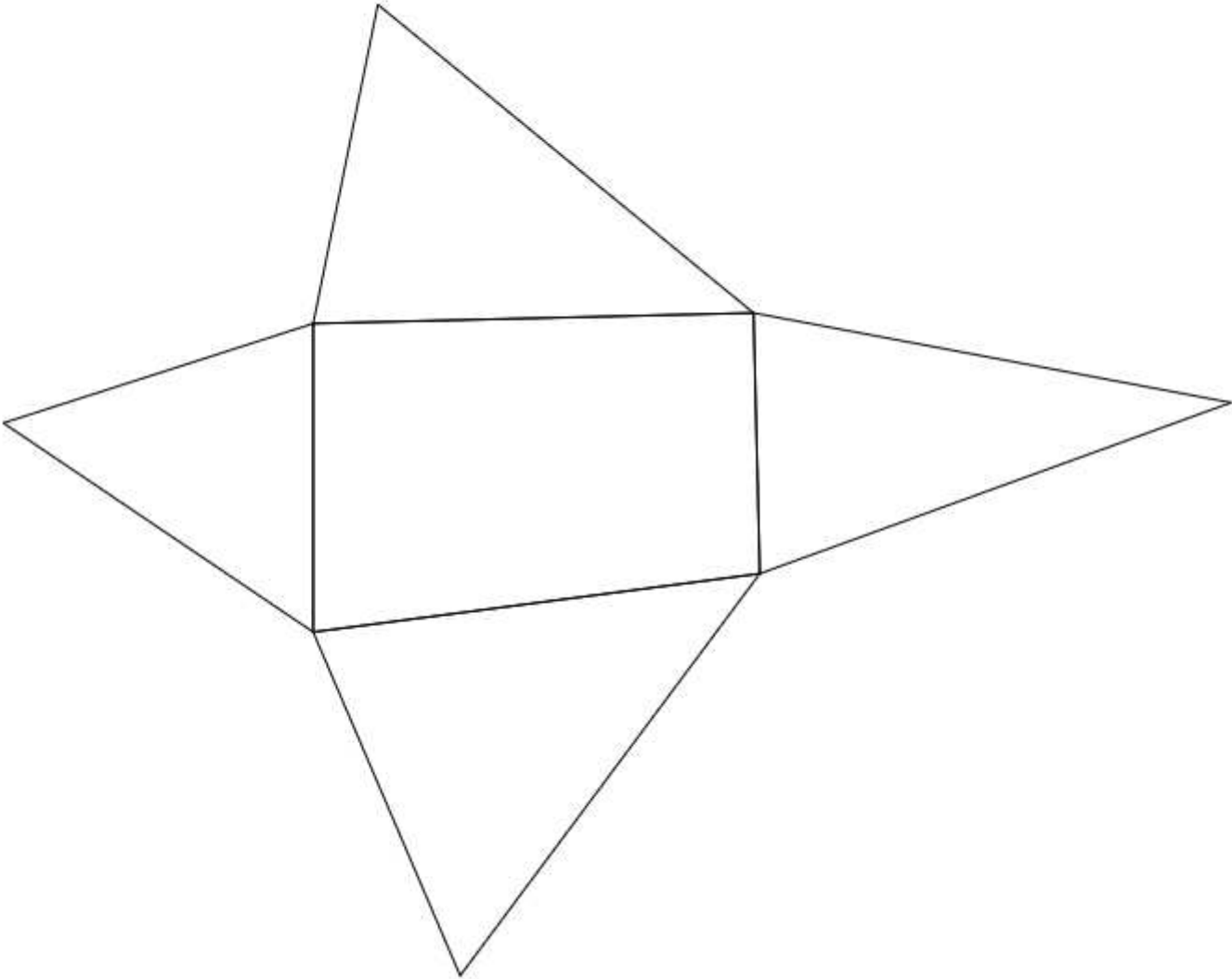


Pirámide II

Desarrollo plano de la pirámide II



Escala 1: 140

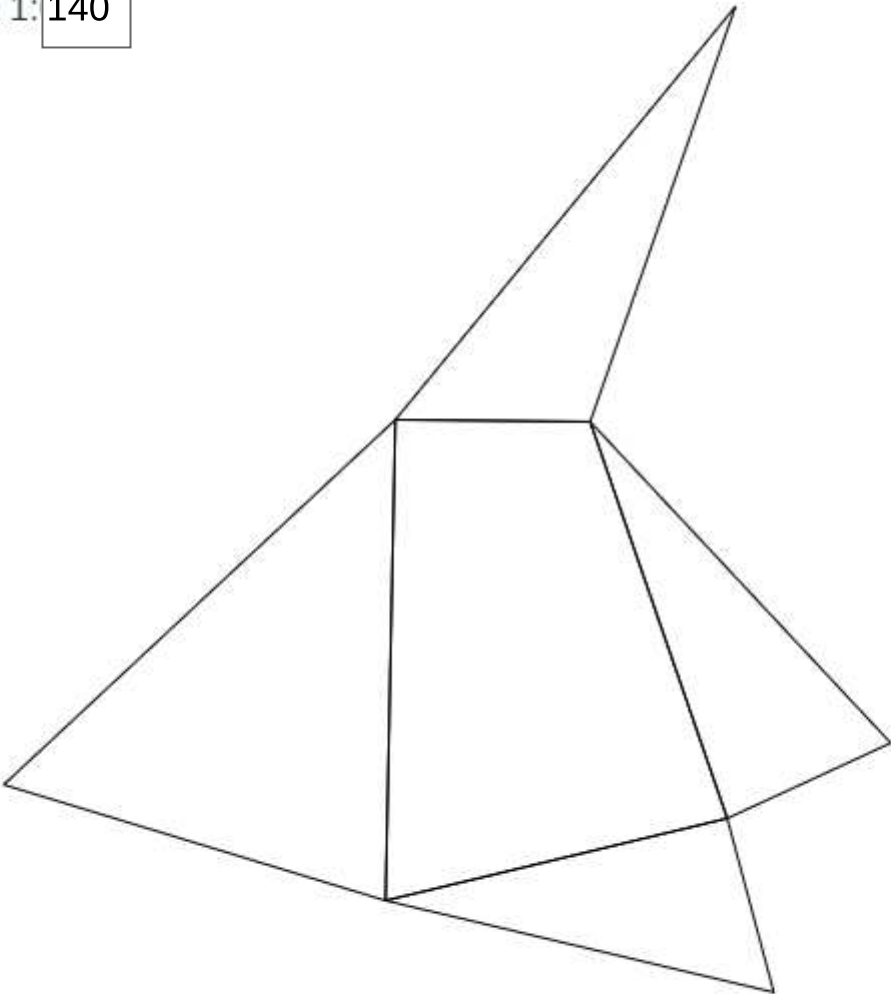


Pirámide IV

Desarrollo plano de la pirámide IV



Escala 1: 140



Pirámide V

## Desarrollo plano de la pirámide V



Escala 1: 140

