

parameters	value	description
<b>D</b>	$\begin{pmatrix} -2.5 \\ -2.5 \end{pmatrix}$	<i>BC</i> midpoint
<b>E</b>	$\begin{pmatrix} -1.5 \\ -0.5 \end{pmatrix}$	<i>CA</i> midpoint
<b>F</b>	$\begin{pmatrix} -3 \\ -1 \end{pmatrix}$	<i>AB</i> midpoint
<b>m<sub>4</sub></b>	$\begin{pmatrix} -0.5 \\ -3.5 \end{pmatrix}$	<i>AD</i>
<b>n<sub>4</sub></b>	$\begin{pmatrix} -3.5 \\ 0.5 \end{pmatrix}$	
<i>c<sub>4</sub></i>	7.5	
<b>m<sub>5</sub></b>	$\begin{pmatrix} 2.5 \\ 2.5 \end{pmatrix}$	<i>BE</i>
<b>n<sub>5</sub></b>	$\begin{pmatrix} 2.5 \\ -2.5 \end{pmatrix}$	
<i>c<sub>5</sub></i>	-2.5	
<b>m<sub>6</sub></b>	$\begin{pmatrix} -2 \\ 1 \end{pmatrix}$	<i>CF</i>
<b>n<sub>6</sub></b>	$\begin{pmatrix} 1 \\ 2 \end{pmatrix}$	
<i>c<sub>6</sub></i>	-5	
<b>G</b>	$\begin{pmatrix} -2.33 \\ -1.33 \end{pmatrix}$	Centroid
$\frac{BG}{GE}$	2	Division ratio by <b>G</b>
$\frac{CG}{GF}$		
$\frac{AG}{GD}$		
$\text{rank} \begin{pmatrix} 1 & 1 & 1 \\ \mathbf{A} & \mathbf{D} & \mathbf{G} \end{pmatrix}$	2	collinear
$\text{rank} \begin{pmatrix} 1 & 1 & 1 \\ \mathbf{B} & \mathbf{E} & \mathbf{G} \end{pmatrix}$		
$\text{rank} \begin{pmatrix} 1 & 1 & 1 \\ \mathbf{C} & \mathbf{F} & \mathbf{G} \end{pmatrix}$		