

parameters	value	description
$\mathbf{D}_1$	$\begin{pmatrix} -1 \\ -2 \end{pmatrix}$	Foot of altitude from $\mathbf{A}$
$\mathbf{E}_1$	$\begin{pmatrix} -1 \\ -2 \end{pmatrix}$	Foot of altitude from $\mathbf{B}$
$\mathbf{F}_1$	$\begin{pmatrix} -3 \\ -1 \end{pmatrix}$	Foot of altitude from $\mathbf{C}$
$\mathbf{m}_7$	$\begin{pmatrix} 1 \\ -3 \end{pmatrix}$	$AD_1$
$\mathbf{n}_7$	$\begin{pmatrix} -3 \\ -1 \end{pmatrix}$	
$c_7$	5	
$\mathbf{m}_8$	$\begin{pmatrix} 3 \\ 1 \end{pmatrix}$	$BE_1$
$\mathbf{n}_8$	$\begin{pmatrix} 1 \\ -3 \end{pmatrix}$	
$c_8$	5	
$\mathbf{m}_9$	$\begin{pmatrix} -2 \\ 1 \end{pmatrix}$	$CF_1$
$\mathbf{n}_9$	$\begin{pmatrix} 1 \\ 2 \end{pmatrix}$	
$c_9$	-5	
$\mathbf{H}$	$\begin{pmatrix} -1 \\ -2 \end{pmatrix}$	Orthocentre