

parameters	value	description
\mathbf{m}_{13}	$\begin{pmatrix} 0.13 \\ 1.84 \end{pmatrix}$	AI
\mathbf{n}_{13}	$\begin{pmatrix} 1.84 \\ -0.13 \end{pmatrix}$	
c_{13}	-3.82	
\mathbf{m}_{14}	$\begin{pmatrix} 1.40 \\ 1.21 \end{pmatrix}$	BI
\mathbf{n}_{14}	$\begin{pmatrix} -1.21 \\ 1.40 \end{pmatrix}$	
c_{14}	0.65	
\mathbf{m}_{15}	$\begin{pmatrix} 1.26 \\ -0.63 \end{pmatrix}$	CI
\mathbf{n}_{15}	$\begin{pmatrix} 0.63 \\ 1.26 \end{pmatrix}$	
c_{15}	-3.16	
\mathbf{I}	$\begin{pmatrix} -2.17 \\ -1.41 \end{pmatrix}$	Incentre
\mathbf{D}_3	$\begin{pmatrix} -1.88 \\ -2.29 \end{pmatrix}$	Point of contact with BC
\mathbf{E}_3	$\begin{pmatrix} -1.29 \\ -1.12 \end{pmatrix}$	Point of contact with AC
\mathbf{F}_3	$\begin{pmatrix} -3 \\ -1 \end{pmatrix}$	Point of contact with AB
$\ \mathbf{I} - \mathbf{D}_3\ $	0.93	$ID_3 = IE_3 = IF_3 = r$
$\ \mathbf{I} - \mathbf{E}_3\ $		
$\ \mathbf{I} - \mathbf{F}_3\ $		
r		
$\angle BAI$	22.5°	$\angle BAI = \angle CAI$
$\angle CAI$		
$\angle ABI$	22.5°	$\angle ABI = \angle CBI$
$\angle CBI$		
$\angle ACI$	45°	$\angle ACI = \angle BCI$
$\angle BCI$		