parameters	values	description
$\mathbf{m_1}$	$\begin{pmatrix} -2 \\ -4 \end{pmatrix}$	slope of AB
m_2	$\begin{pmatrix} 3 \\ 1 \end{pmatrix}$	slope of BC
m_3	$\begin{pmatrix} -1\\3 \end{pmatrix}$	slope of CA
A - B	4.47	length of AB
B-C	3.16	length of BC
C - A	3.16	length of CA
$\operatorname{rank}\begin{pmatrix} 1 & 1 & 1 \\ \mathbf{A} & \mathbf{B} & \mathbf{C} \end{pmatrix}$	3	non-collinear
$\mathbf{n_1}$	$\begin{pmatrix} -4\\2 \end{pmatrix}$	AB
c_1	10	
n_2	$\begin{pmatrix} 1 \\ -3 \end{pmatrix}$	BC
c_2	5	
n_3	$\begin{pmatrix} 3 \\ 1 \end{pmatrix}$	CA
c_3	-5	
Area	5	Area of Triangle
$\angle A$	45°	
$\angle B$	45°	Angles
$\angle C$	90°	