Random vector

Antalene (EE22BTECH11008)

Random vectors obtained

Random vectors obtaine

$$\mathbf{A} = \begin{pmatrix} -3\\0 \end{pmatrix}$$

$$\mathbf{B} = \begin{pmatrix} 0\\-4 \end{pmatrix}$$

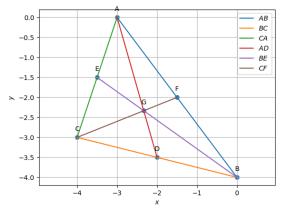
$$\mathbf{C} = \begin{pmatrix} -4\\2 \end{pmatrix}$$

\ - /		
Parameters	values	description
\mathbf{m}_1	(3, -4)	B-A
m ₂	-4, 1	С-В
\mathbf{m}_2	1, 3	A-C
—B-A—	5	1
—С-В—	root17	2
—A-C—	root10	3
rank	3	rank
n_1	-4, -3	omat x m1
n ₂	1, 4	omat x m2
n ₃	3, -1	omat x m3
area	6.5	0.5 x —m1 x m
angle A	13.31	cosa
angle B	48.73	cosb
angle C	117.95	cosc
6	1 11 1	

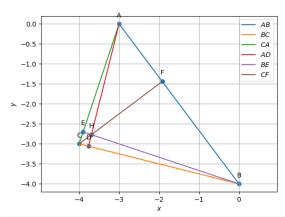
1	^	
0.0 -	— AB	
-0.5 -	— BC — CA	
-1.0 -		
-1.5 -		
> −2.0 −		
-2.5 -		
-3.0 -		
-3.5 -		_
-4.0 -	В	
	-4 -3 -2 -1 0	
	X	

	Parameters	values	description
	D	-2, -3.5	B+C/2
	Е	-3.5, -1.5	C+A/2
	F	-1.5, -2	A+B/2
	m ₄	1, -3.5	D-A
	m ₅	-3.5, 2.5	E-B
	m ₆	2.5, 1	F-C
	n ₄	-3.5, -1	omat x m4
	n ₅	2.5, 3.5	omat x m5
	n ₆	1, -2.5	omat x m6
	G	-7/3, -7/3	A+B+C/3
	AG	53/3	
	DG	53/6	
	BG	74/3	
	EG	74/6	centroid divides median in
	CG	root29/3	
	FG	root29/6	
m	2 <u>ran</u> k ADG		
	rank BEG	2	Therefore points are collin
	rank CFG		
	AF	-3/2, 2	AFDE isa a quad
	ED		

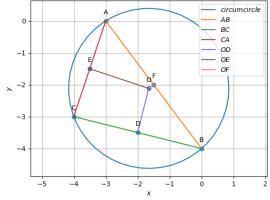
1



Parameters	values	description
n ₇	-4,1	alt AD1
n ₈	1,3	alt BE1
n ₉	3, -4	alt CF1
Н	-48/13, -36/1	3orthocentre



Parameters	values	description
О	-43/26, -55/2	6circumcentre
OA		
OB	2.5074	circumradius
OC		



Parameters	values	description	
A	-0.28, 1.74	angular bisector	
В	-1.57, 1.04		
С	-1.28, -0.70		
I	-2.63, -2.25	incentre	
R_I	1.0581		
BAI	27.65	1	
CAI	27.65	bisector of A	
ABI	19.54	bisector of B	
CBI			
BCI	125.12	bisector of C	
ACI	137.12		
D3	-2.89, -3.27		
E3	-1.78, -1.61	points of intersection	
F3	-2.89, -3.27		

