

5.
$$det \begin{bmatrix} 6.7-1 \\ 6.11 \end{bmatrix} = det \begin{bmatrix} 6.7-1 \\ 55 \end{bmatrix} = det \begin{bmatrix} 6.7-1 \\ 6.11 \end{bmatrix} = de$$

~~~	2	2(a)
1/8 X1,X.	X1.0.64+ X1.0	.71
(-3,-2)	-3.46	(3.18, 3,37)
(-1, 1)	0.13	(6.08,61)
[0,-4]	-3.08	(4.01,3,65)
(2,3)	3.59	(8.3,5.11)
(1,0)	0.64	(6.4,6.5)
(-2,-1)	-1.05	(4,69,441)
(3,2)	3.46	(8,21,6,61)
(-4,-5)	-6.1/	(1.9. 1.06)
(4,4)	5.44	(4.61, 10 34) (4.09, 7.19)
(0,1)	1,54	(1.99,7.19)

9. Ptotted on original

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10. Using PCA potace data complexity by producting 2D points onto a singly line had contain most in the various this simplifies the latered while hereins the various one point.