KW 2 (1) Agreed perspective matrix in 20 has the form Due to invariance under multiplication, we med 4 points to determine the e.g.;  $\begin{bmatrix} a & b & c \\ d & e & f \\ S & h & i \end{bmatrix} \begin{bmatrix} -3 \\ 1 \end{bmatrix} = \begin{bmatrix} -17 \\ -17 \end{bmatrix} = \begin{bmatrix} -\omega_1 \\ -\omega_2 \end{bmatrix}$ Note that, since the Matrix is not normalized we cannot expect the we coordinate to be normalized to 1 after times formation. Thus, we have to assume a sound we comproment we, get the viglet. Sa, specifying ? point les giver us 3 quations, but also ane u un krown w, a - 36 + c = -le, d - 3e + f = -w, g - 3h + i = w If you specify 3 more points in general position, (ie. no 3 points on one line) you get enough equations to determine the matrix entries a-i up to a constant multiplier. You can set that multiplies to any non zoro value. The solving of the system is exactly like for the affine case (HWI)

HW						
2	There are many	solutions. One i	s this i			
	pade Metrix ()  Scale (3,2)  Ivan Square()  pop Mahir()	Ufirst square				
	translate (3,2) votate (1) Push Matrix ()	of francis top right				
	Scale (5,-2) draw Square() Pop Matrix 1)	ll note negative	scaling ->	flips alam	, this axis	
	translate (5,0) Scale (4,-2) draw Squarel)	1 gane idea				
AH	nughicly: use	compination of	<u>Ponihi</u> ve	scaling the trans	end tra	us lation!
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