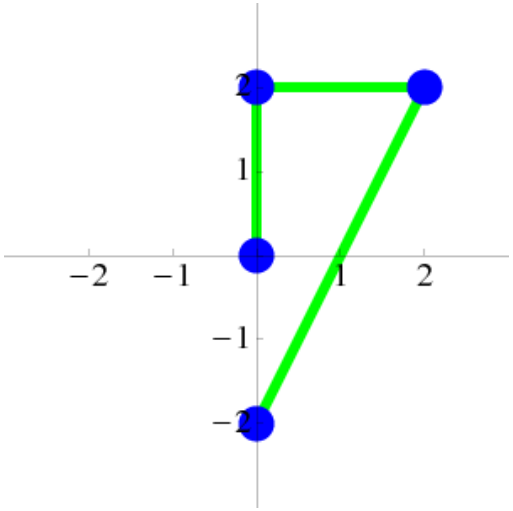
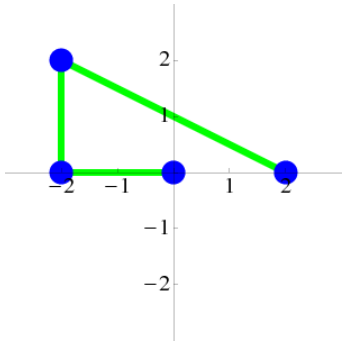
Lecture 8: Worksheet

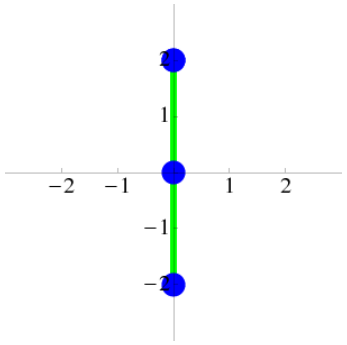
1 A polygonal figure through the points $(0,0)$,$(0,2)$, $(2,2)$ and $(0,-2)$ is exposed to a linear transformation $T(x) = Ax$, where A is a 2×2 matrix. Match the figures of the resulting picture with the matrices.



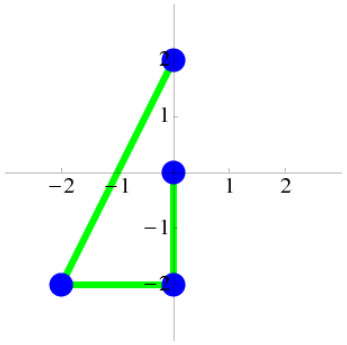
Enter 1)-6)	The matrix
	$A = \begin{bmatrix} -1 & 0 \\ 0 & 1 \end{bmatrix}$
	$A = \begin{bmatrix} 1/2 & 0 \\ 0 & 1/2 \end{bmatrix}$
	$A = \begin{bmatrix} -1 & 0 \\ 0 & -1 \end{bmatrix}$
	$A = \begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix}$
	$A = \begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix}$
	$A = \begin{bmatrix} 0 & 0 \\ 0 & 1 \end{bmatrix}$



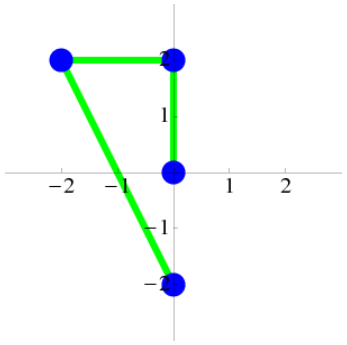
1



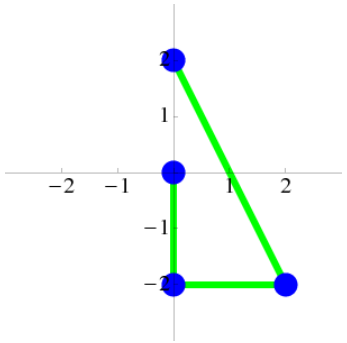
2



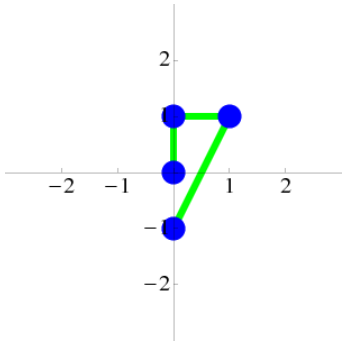
3



4



5



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