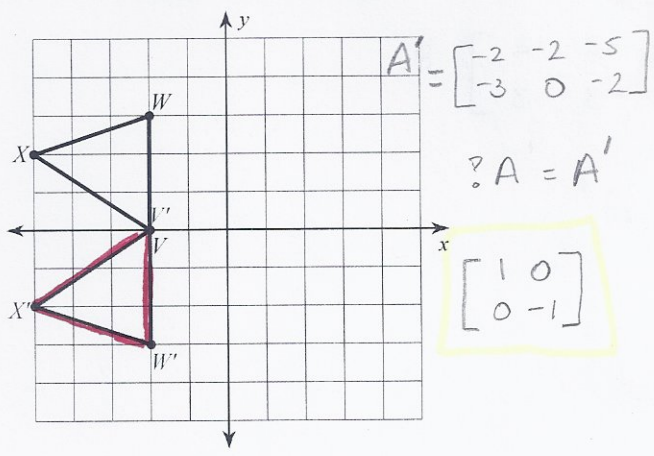


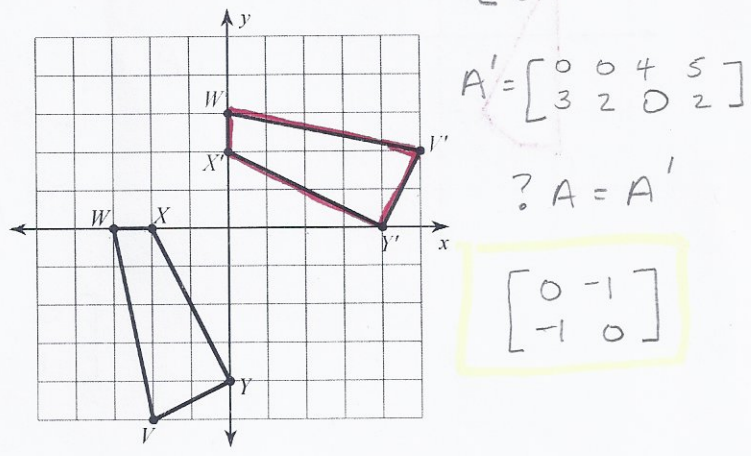
WS 1.9

Graph the image of the figure using the transformation given and determine the matrix that can perform the transformation.

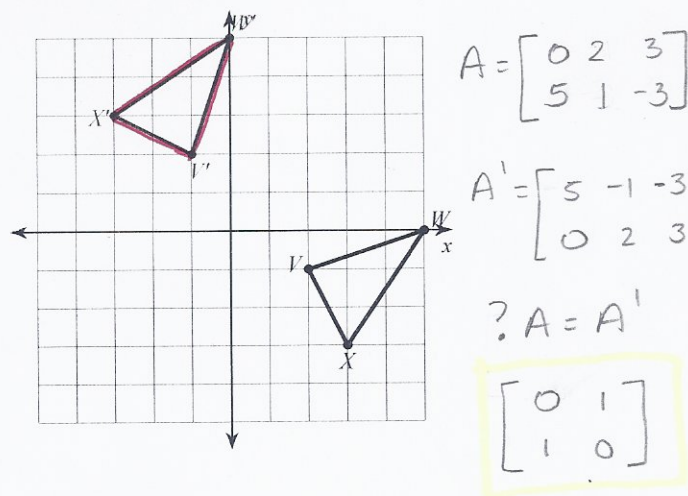
1) reflection across the x-axis $A = \begin{bmatrix} -2 & -2 & 5 \\ 3 & 0 & 2 \end{bmatrix}$



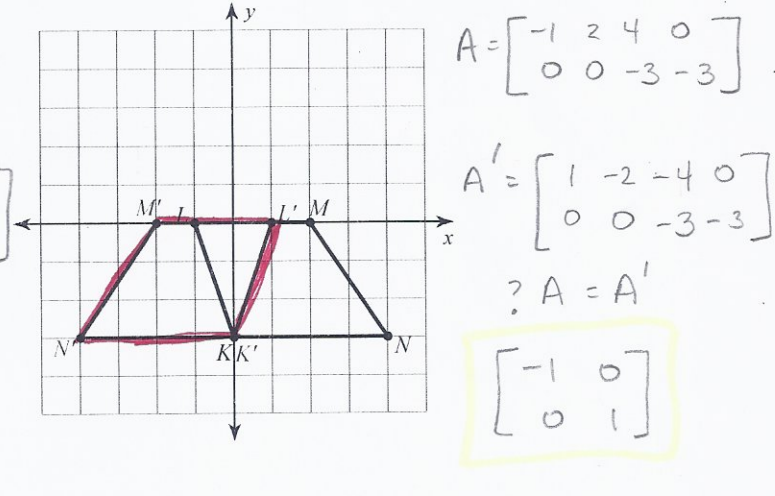
2) reflection across $y = -x$ $A = \begin{bmatrix} -3 & -2 & 0 & -2 \\ 0 & 0 & -4 & -5 \end{bmatrix}$



3) reflection across $y = x$

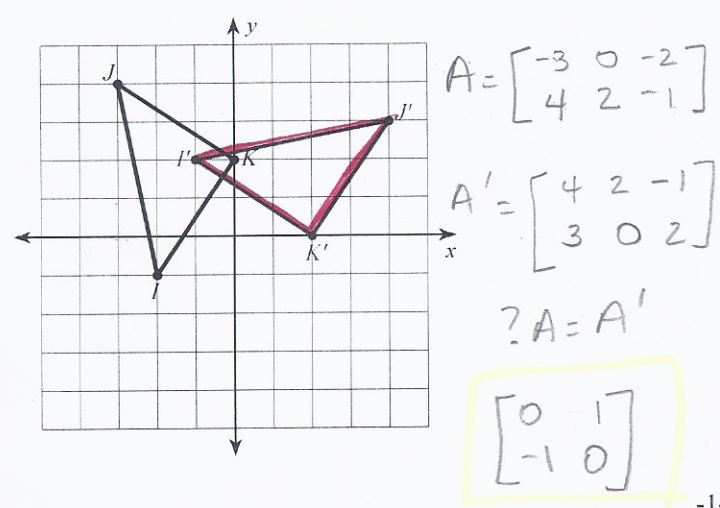


4) reflection across the y-axis

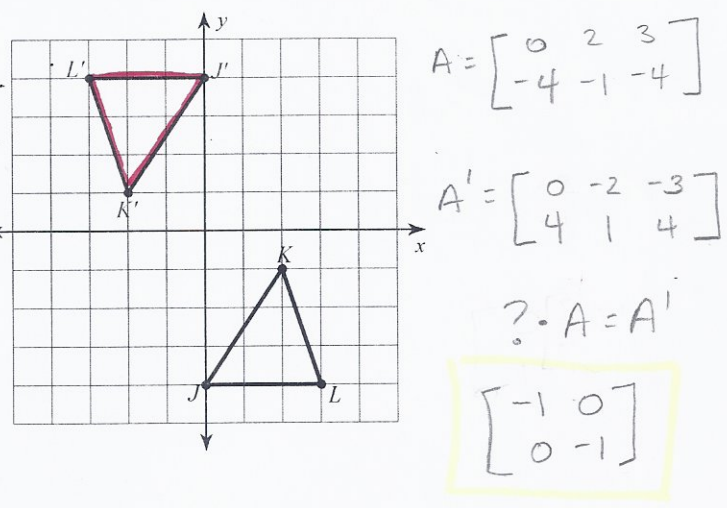


Graph the image of the figure using the transformation given.

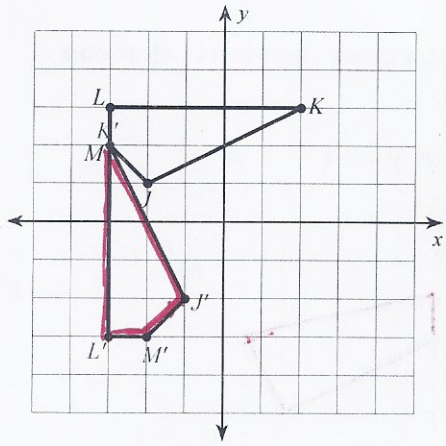
5) rotation 90° clockwise about the origin



6) rotation 180° about the origin



7) rotation 90° counterclockwise about the origin



$$A = \begin{bmatrix} -2 & 2 & -3 & 3 \\ 1 & 3 & 3 & 2 \end{bmatrix}$$

$$A' = \begin{bmatrix} -1 & -3 & -3 & -2 \\ -2 & 2 & -3 & -3 \end{bmatrix}$$

$$? A = A'$$

$$\begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix}$$