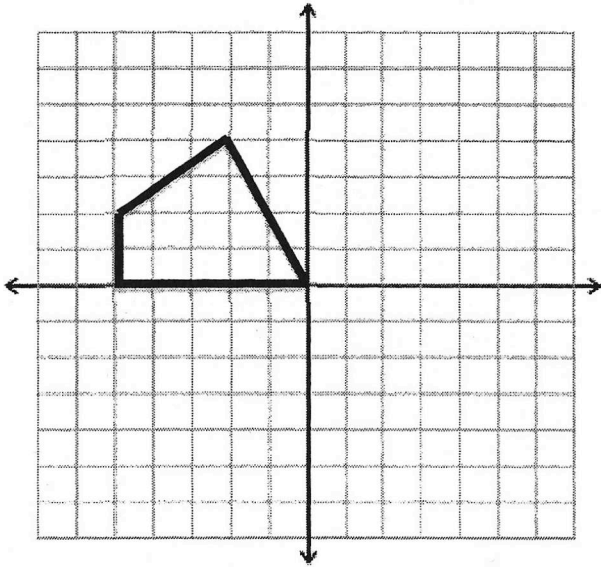


Guided Notes: Matrix Transformation
Algebra II

Name _____

Date _____ Period _____

Representing Shapes with Matrices



Points:

Matrix:

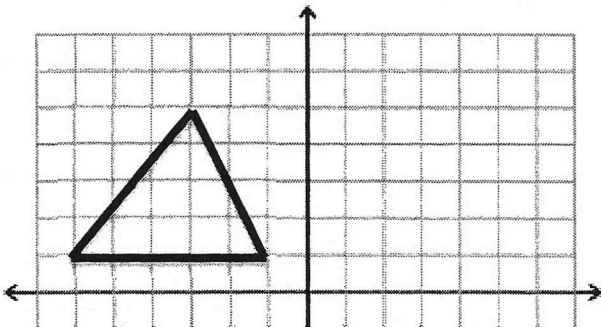
$$\begin{bmatrix} & \\ & \end{bmatrix}$$

Transformations

A _____ is a change made to a figure

- 1) Translation: _____
- 2) Reflection: _____
- 3) Rotation: _____
- 4) Stretch/Dilation: _____

Example 1: Use a matrix to translate the following shape up 2 places and right 5 places



$$\begin{bmatrix} & \\ & \end{bmatrix} \begin{bmatrix} & \\ & \end{bmatrix} \begin{bmatrix} & \\ & \end{bmatrix} \begin{bmatrix} & \\ & \end{bmatrix} \begin{bmatrix} & \\ & \end{bmatrix}$$