Write a code from soutch to perform

the following tisks on the two test samples:

[test1.png, test2.png]

[without using any libraries related to graphics]

1 Saling [Spoints]

$$\begin{bmatrix} b_n & 0 \\ 0 & b_y \end{bmatrix} \begin{bmatrix} n \\ y \end{bmatrix}$$

(bu, by) = (-1.75, -1.75) (-1.5, 1) (1, -1.5) (1.75, 1.75) (1.5, 1) (1, 1.75)

3 Shear [Spoints]

 $\begin{bmatrix} 1 & tano \\ 0 & 1 \end{bmatrix} \begin{bmatrix} u \\ y \end{bmatrix}$

3 Rotation

[Spoints]

4 Reflection

[Spoints]

(about x-axis and y-axis)