MATRIX TRANSFORMATIONS IN 2 DIMENTIONS
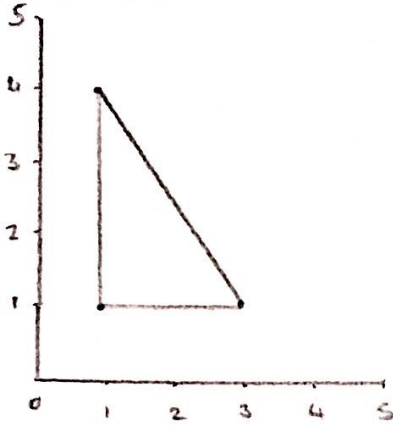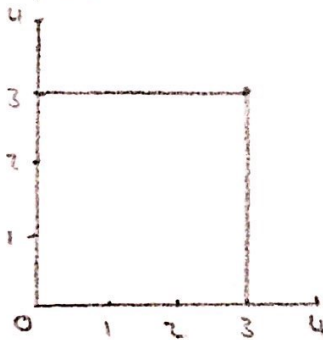
Exercise 1) a) For the triangle with vertices:
(1,1), (3,1) and (1,4) find the
matrix for the stretch, by factor 3,
x-axis invariant.

b) Sketch the result of the stretch on a separate graph.

Exercise 2) a) For a square with vertices (0,0), (3,0), (0,3) and (3,3)
shear the square with x-axis invariant 3 and scale factor
1.5 :

b) Sketch the result of the shear on separate graph.