## Computer Graphics and Image Processing



Describe an algorithm for clipping a line against a rectangle.
Show that it works using the above three examples.


The above diagram shows a complicated 2D transformation applied to a unit square. The overall transformation can be described in terms of a number of simpler transformations. Describe each of these simple transformations and give a matrix representation of each using homogeneous coordinates.

Use the matrices from the previous part to find the $(x, y)$ coordinates of point $A^{\prime}$, the image of point $A$ under the overall transformation.

