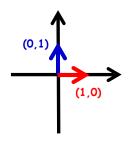
7B Reflections & Rotations



1. Describe fully the geometrical transformation represented by the matrix:

$$\begin{bmatrix} 3 & 0 \\ 0 & 3 \end{bmatrix}$$

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

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

	Find a matrix to represent the transformation: 'Reflection in the y-axis'
	(5.1
b)	'Enlargement, centre (0,0), scale factor 2'
c)	'Rotation of 45° anticlockwise about (0,0)'

As a general rule, the matrix representing a rotation of angle θ anticlockwise about the origin is:	
Final notes:	
Invariant point	
Invariant Lines	