					$\begin{pmatrix} -0.5 & -\frac{\sqrt{3}}{2} \\ -\frac{\sqrt{3}}{2} & 0.5 \end{pmatrix}$
					rotation of 180° centre (0,0)
$\begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$	reflection in $y = x$	$\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$	$\begin{pmatrix} -1 & 0 \\ 0 & 1 \end{pmatrix}$	reflection in $y-$axis	$\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$
reflection in $x-$axis					
$\begin{pmatrix} 2 & 0 \\ 0 & -2 \end{pmatrix}$					
reflection in $x-$axis followed by enlargement scale factor 2 centre(0,0)	reflection in $x-$axis then stretch scale factor 2 in $x-$direction and stretch scale factor 3 in $y-$direction	$\begin{pmatrix} 2 & 0 \\ 0 & -3 \end{pmatrix}$	$\begin{pmatrix} \cos\theta & -\sin\theta \\ \sin\theta & \cos\theta \end{pmatrix}$	anti$-$clockwise rotation about the origin through angle θ	stretch in $y-$direction scale factor5
					$\begin{pmatrix} 1 & 0 \\ 0 & 5 \end{pmatrix}$
					reflection in the line $y = (\tan\theta)x$
$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$	$\begin{pmatrix} 2 & 0 \\ 0 & 1 \end{pmatrix}$	stretch in $x-$direction scale factor 2	the matrix which transforms $\begin{pmatrix} 2 & 3 & 4 \\ 1 & 1 & 5 \end{pmatrix}$ to $\begin{pmatrix} 6 & 9 & 12 \\ 1 & 1 & 5 \end{pmatrix}$	$\begin{pmatrix} 3 & 0 \\ 0 & 1 \end{pmatrix}$	$\begin{pmatrix} \cos 2\theta & \sin 2\theta \\ \sin 2\theta & -\cos 2\theta \end{pmatrix}$

					the identity transformation
					$\begin{pmatrix} 0.5 & -\frac{\sqrt{3}}{2} \\ -\frac{\sqrt{3}}{2} & -0.5 \end{pmatrix}$
$\begin{pmatrix} -3 & 0 \\ 0 & 3 \end{pmatrix}$	reflection in $y = \frac{x}{\sqrt{3}}$	$\begin{pmatrix} 0.5 & \frac{\sqrt{3}}{2} \\ \frac{\sqrt{3}}{2} & -0.5 \end{pmatrix}$	the matrix which transforms $\begin{pmatrix} 2 & 3 & 4 \\ 1 & 1 & 5 \end{pmatrix}$ to $\begin{pmatrix} 4 & 6 & 8 \\ 3 & 3 & 15 \end{pmatrix}$	$\begin{pmatrix} 2 & 0 \\ 0 & 3 \end{pmatrix}$	reflection in $y = -\frac{x}{\sqrt{3}}$
reflection in $y-$axis followed by enlargement scale factor 3 centre(0,0)					
stretch scale factor 3 in $x-$direction and stretch scale factor 4 in $y-$direction					
$\begin{pmatrix} 3 & 0 \\ 0 & 4 \end{pmatrix}$	$\begin{pmatrix} 0 & -1 \\ -1 & 0 \end{pmatrix}$	reflection in $y = -x$	$\begin{pmatrix} 1 & 0 \\ 0 & 3 \end{pmatrix}$	the matrix which transforms $\begin{pmatrix} 2 & 3 & 4 \\ 1 & 1 & 5 \end{pmatrix}$ to $\begin{pmatrix} 2 & 3 & 4 \\ 3 & 3 & 15 \end{pmatrix}$	reflection in $y = \sqrt{3}x$
					$\begin{pmatrix} -0.5 & \frac{\sqrt{3}}{2} \\ \frac{\sqrt{3}}{2} & 0.5 \end{pmatrix}$
					$\begin{pmatrix} 2 & 0 \\ 0 & 2 \end{pmatrix}$
reflection in $y = -\sqrt{3}x$	anticlockwise rotation of 90°, centre (0,0)	$\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$	clockwise rotation, 90°, centre (0,0)	$\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$	enlargement, scale factor 2, centre (0,0)