

MATRIX TRANSFORMATIONS

Practice questions:

Describe each matrix transformation using provided statement.

a $\begin{pmatrix} 3 & 0 \\ 0 & 3 \end{pmatrix}$	b $\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$	c $\begin{pmatrix} 0 & -1 \\ -1 & 0 \end{pmatrix}$
d $\begin{pmatrix} -1 & 0 \\ 0 & 1 \end{pmatrix}$	e $\begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$	f $\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$
g $\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$	h $\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$	i $\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$

Identity matrix	Rotation 180° at origin	Enlargement with scale factor 3 at origin
Rotation about origin at 90° anticlockwise directions	Reflection at x axis	Rotation at origin 270° anticlockwise direction
Reflection at y = x	Reflection at y = -x	
Reflection at y axis		

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