

Linear transformations with Matrices lesson 6 - Rotate a point
N degrees about the origin

Magic Monk Tutorials

1 State the transformation matrix for an anticlockwise rotation about the origin of:

1.1 45 degrees.

1.2 120 degrees.

2 Find the transformation matrix for clockwise rotation about the origin.

3 Rotate the point $P = \begin{pmatrix} 1 \\ 3 \end{pmatrix}$ by 45 degrees anticlockwise.

4 Rotate the point $P = \begin{pmatrix} -2 \\ -3 \end{pmatrix}$ by 30 degrees clockwise.